

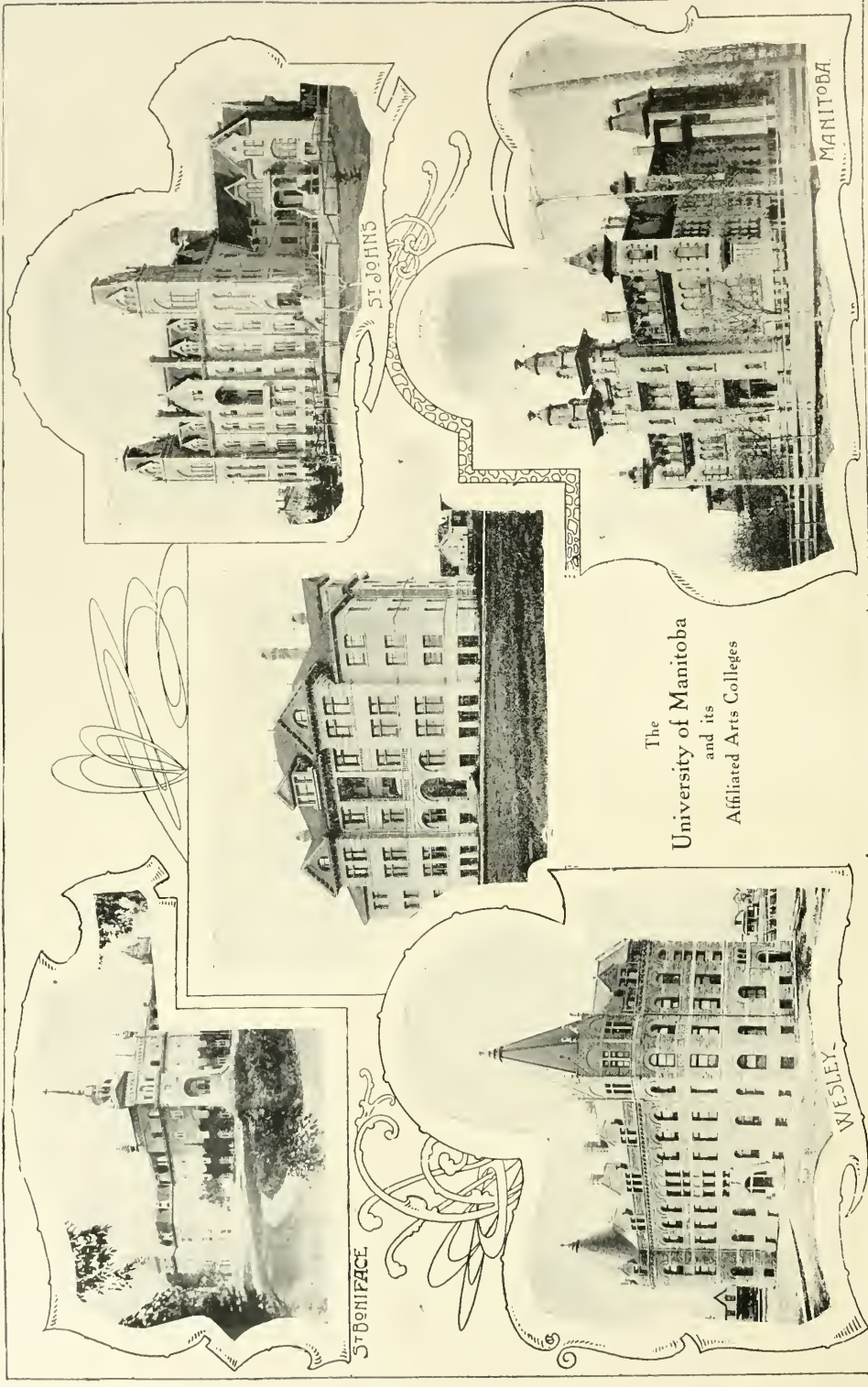
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UNIVERSITY
MANITOBA



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ST. JOHN'S

MANITOBA

The
University of Manitoba
and its
Affiliated Arts Colleges

ST. BONIFACE

WESLEY

CALENDAR

UNIVERSITY
OF MANITOBA

WINNIPEG

Incorporated by the Act of the Manitoba
Legislature, 1877

1909 - 1910



WINNIPEG

Printed for the University by the Free Press Job Dept.
1909



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All communications relating to Examinations, Curricula, University Standing and Instruction are to be addressed to the Registrar of the University, while all correspondence respecting College Instruction, Residence, etc., is to be addressed to the Registrar or Secretary of the College concerned.

REGISTRAR OF THE UNIVERSITY
D. M. DUNCAN, M.A.

RECTOR OF ST. BONIFACE COLLEGE
REV. T. FILIATRAULT, S.J.

SECRETARY OF ST. JOHN'S COLLEGE
VERY REV. DEAN COOMBES, M.A.

REGISTRAR OF MANITOBA COLLEGE
F. W. CLARK, B.A.

REGISTRAR OF WESLEY COLLEGE
REV. A. STEWART, D.D.

REGISTRAR OF MANITOBA MEDICAL COLLEGE
E. S. POPHAM, M.A., M.D., C.M.

REGISTRAR OF THE COLLEGE OF PHARMACY
W. D. MACDOUGALL.

SECRETARY OF THE FACULTY OF SCIENCE
M. A. PARKER, B.Sc., F.C.S.

REGISTRAR OF THE MANITOBA AGRICULTURAL COLLEGE
F. LARKIN, ESQ.

CALENDAR AND ALMANAC, 1909-1910

1909—AUGUST

- 17—Tu Last day for receiving applications for the September Examinations.

SEPTEMBER

- 1—W Board of Studies meets at 4 p.m.
Opening of ballots and declaring result of election of ten Representatives of Convocation to Council.
16—Th Supplemental and Matriculation Examinations begin.
23—Th Registrar to be notified on or before this date of appointments of Representatives to the Council and to the Board of Studies.

OCTOBER

- 1—Fr University lectures begin.
6—W Board of Studies meets at 4 p.m.
7—Th University Council meets at 3 p.m. Election of Vice-Chancellor and of Representative to the Board of Studies. Appointment of Committees. Bursar's yearly statement.
15—Fr University field day.

NOVEMBER

- 3—W Board of Studies meets at 4 p.m.
30—Tu First Essay in Modern Language Course (English), to be written at the University Building, 2 p.m.

DECEMBER

- 1—W Board of Studies meets at 4 p.m.
8—W Payment of first moiety of Scholarships.
9—Th University Council meets at 3 p.m. Election of Registrar.
22—W Christmas vacation begins.

1910—JANUARY

- 3—M University lectures begin.
 5—W Board of Studies meets at 4 p.m.
 8—S Essays of the First and Second Years to be written at the University Building, 2 p.m.
 18—Tu Second essay in the Modern Language Course (French), to be written at the University Building, 2 p.m.

FEBRUARY

- 2—W Board of Studies meets at 4 p.m.
 10—Th University Council meets at 3 p.m. Appointment of Examiners.

MARCH

- 1—Tu Last day for receiving Theses for the M.A. degree.
 2—W Board of Studies meets at 4 p.m.
 3—Tu Third essay in the Modern Language Course (German), to be written at the University Building, 2 p.m.
 10—Th Most Rev. R. Machray, D.D., LL.D., Archbishop of Rupert's Land, First Chancellor of the University, died 1904.
 19—S Last day for receiving applications for Examinations in Arts, Law, Medicine and Engineering.

APRIL

- 5—Tu University lectures close.
 6—W Board of Studies meets at 4 p.m.
 7—Th University Council meets at 3 p.m.
 College lectures close and University Examiners meet at 5 p.m.
 18—M Examinations in Arts, Law, Medicine and Engineering begin.
 23—S Last day for receiving applications for the Matriculation Examinations, and for Special Examination of candidates for Travelling Scholarship.

N.B.—The Practical Examinations of the Faculty of Medicine will be held in April, at a date to be selected by the Board of Studies.

MAY

- 4—W Board of Studies meets at 4 p.m.
 11—W Payment of second moiety of the following Scholarships: Matriculation, First Year in Law, First and Second Years in Arts and Engineering, First, Second and Third Years in Medicine.
 12—Th University Council meets at 3 p.m., to consider Reports of Examinations.
 13—Fr Conferring of Degrees at 3 p.m. Meeting of Convocation at 8 p.m.
 19—Th Payment of second moiety of the following Scholarships: Second Year in Law, Third Year in Arts and Engineering, Fourth Year in Medicine.
 23—M Matriculation Examinations begin. Special Examination of candidates for Travelling Scholarship begins.

JUNE

- 1—W Board of Studies meets at 4 p.m.
 2—Th University Council meets at 3 p.m.

THE UNIVERSITY OF MANITOBA

THE UNIVERSITY OF MANITOBA, established by Act of the Local Legislature in 1877, has the sole power of conferring Degrees in ARTS, LAW, and MEDICINE in the Province of Manitoba.

Degrees in DIVINITY may be granted by the various Colleges affiliated with the University, provided that all candidates for the Degree of Bachelor of Divinity, not graduates of this or any other University, shall have passed a satisfactory examination on the subjects of the First and Second Years in Arts as prescribed by the University, Greek being compulsory. Such Graduates in Divinity have in the University the same rights and privileges as other Graduates.

The Government of the University is vested in the Chancellor, appointed by the Lieutenant-Governor-in-Council, and a Council of sixty-five members, composed of representatives from each of the affiliated Colleges, the members of Convocation, the College of Physicians and Surgeons of Manitoba, the Provincial Government, and the Faculty of Science.



VISITOR

THE HON. SIR DANIEL HUNTER McMILLAN
Lieutenant-Governor of Manitoba

CHANCELLOR

MOST REV. S. P. MATHESON, D.D., D.C.L., Archbishop of
Rupert's Land.

VICE-CHANCELLOR

THE HON. JOSEPH DUBUC, B.C.L., LL.D., Chief Justice of
Manitoba

HON. BURSAR

J. A. M. AIKINS, M.A., K.C.

REGISTRAR

D. M. DUNCAN, M.A.

SOLICITOR

I. PITBLADO, M.A., LL.B.

GOVERNING BODY OF THE UNIVERSITY 1908—1909

Chairman

MOST REV. S. P. MATHESON, D.D., D.C.L., *Archbishop of Rupert's Land.*

Vice-Chairman

THE HON. JOSEPH DUBUC, B.C.L., LL.D., *Chief Justice of Manitoba*

Representatives of St. Boniface College

REV. TELESPHORE FILIATRAULT, S.J., *Rector.*

REV. JULIEN PAQUIN, S.J.

REV. A. A. CHERRIER, Pt.

HON. JOS. DUBUC, B.C.L., LL.D., *Chief Justice of Manitoba, Vice-Chancellor.*

J. K. BARRETT, LL.D.

J. A. DEVINE, M.A., M.D., B.C.L.

JOSEPH BERNIER, M.A.

Representatives of St. John's College

VERY REV. DEAN COOMBES, M.A.

VEN. ARCHDEACON FORTIN, B.A., D.D.

REV. CANON MURRAY, M.A.

HON. T. MAYNE DALY, K.C.

J. A. MACHRAY, M.A., LL.B.

REV. CANON PHAIR, M.A.

J. STEWART TUPPER, B.A.

Representatives of Manitoba College

REV. WILLIAM PATRICK, M.A., D.D., *Principal.*

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REV. THOS. HART, M.A., D.D.

REV. F. B. DUVAL, D.D.

THE HON. MR. JUDGE DAWSON.

REV. G. B. WILSON, LL.B., PH.D.

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 J. A. M. AIKINS, M.A., K.C.
 W. SANFORD EVANS, M.A.
 REV. ANDREW STEWART, D.D.
 J. H. ASHDOWN, Esq.
 W. F. OSBORNE, M.A.
 R. T. RILEY, Esq.

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 S. W. PROWSE, B.A., M.D., F.R.C.S.
 D. H. McCALMAN, B.A., M.D., C.M.

Representatives of the College of Physicians and Surgeons

C. W. CLARK, M.D.
 A. W. MOODY, M.D.
 T. M. MILROY, M.D.
 J. N. HUTCHISON, M.D.

Representatives of Convocation

GORDON BELL, B.A., M.D., C.M.
 F. W. CLARK, B.A.
 R. R. COCHRANE, B.A.
 D. M. DUNCAN, M.A.
 J. R. JONES, M.D.
 E. LOFTUS, M.A., LL.B.
 D. McINTYRE, M.A., *Superintendent of Winnipeg Schools*.
 W. A. McINTYRE, B.A., LL.D., *Principal of Normal School*.
 I. PITBLADO, M.A., LL.B.
 E. S. POPHAM, M.A., M.D., C.M.

Representatives of the Provincial Government

THE HON. THE MINISTER OF EDUCATION (*ex officio*).
 THE HON. MR. JUSTICE PHIPPEN.
 THE HON. MR. JUSTICE RICHARDS.
 REV. CANON MACMORINE, M.A.
 W. A. DONALD, Esq.
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 H. R. HOOPER, B.A.

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A. H. REGINALD BULLER, B.Sc., PH.D., D. SC.

Representatives of the Manitoba Agricultural College

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G. A. SPROULE, Esq.

S. A. BEDFORD, Esq.

HUGH DYER, Esq.

WALTER JAMES, Esq.

J. PARENT, Esq.

ALEX. MORRISON, Esq.

CONVOCATION

CONVOCATION consists of the Chancellor, the Vice-Chancellor, the members of the University Council, all University graduates in Manitoba registered in 1877, all graduates of the University and graduates in Theology from any of the Colleges affiliated with the University.

The annual meeting of Convocation is held at 8 p.m. on the day of the public conferring of Degrees in May by the University, at which time nominations of candidates for representation on the Council are made.

THE BOARD OF STUDIES

The general superintendence of all examinations is entrusted to a Board called the Board of Studies, composed of members of the Council elected annually, as follows: two by each of the affiliated Colleges in Arts, two by the Graduate Representatives, one by the College of Physicians and Surgeons of Manitoba, one by Manitoba Medical College, one by the Council, and two by the Faculty of Science.

It is the duty of the Board, also, to report to the Council, when they see fit, on the studies of the University, and other matters connected therewith, and generally to discharge all duties that may be assigned them by the Council.

Members of the Board, 1908-1909

Rev. Father Cherrier, *Chairman*.

D. M. Duncan, M.A., *Secretary*.

Rev. Father Paquin	Dr. H. H. Chown
Very Rev. Dean Coombes	Dr. T. M. Milroy
Rev. Canon Murray	Dr. J. R. Jones
Rev. Dr. Hart	Mr. Daniel McIntyre
Rev. Dr. Bryce	Prof. R. R. Cochrane
Rev. Dr. Stewart	Prof. Swale Vincent
Prof. W. F. Osborne	

Most Rev. Archbishop Matheson, *Chairman*.
Mr. J. A. M. Aikins Mr. I. Pitblado.
Rev. Dr. Sparling Mr. J. A. Machray
R. H. Shanks, *Secretary*.

	Rev. Dr. Sparling, <i>Chairman</i>
Mr. J. A. M. Aikins	Dr. J. K. Barrett
Prof. R. R. Cochrane	Rev. Dr. Bryce
Mr. J. A. Machray	Rev. Dr. Patrick
Mr. R. T. Riley	Mr. E. Loftus
	D. M. Duncan, <i>Secretary</i>

Hon. Chief Justice Dubuc, <i>Chairman.</i>	
Hon. Mr. Justice Richards	Hon. Mr. Judge Myers
Dr. H. H. Chown	Mr. D. M. Duncan, <i>Secretary.</i>

Rev. Dr. Stewart, *Chairman.*

Mr. W. Sanford Evans	Prof. Swale Vincent
Mr. F. W. Clark	Mr. D. M. Duncan
Mr. A. R. Leonard	

Professor Buller, *Chairman*.
 Rev. Canon Murray Dr. C. W. Clark
 Prof. J. Dick Fleming Prof. Osborne
Librarian—Mrs. W. H. Thompson.

UNIVERSITY EXAMINERS, 1909

Arts

Classics: REV. DR. HART; VERY REV. DEAN COOMBS, M.A.; A. T. HAWLEY, M.A.; REV. T. HUDON, S.J.; R. O. JOLLIFFE, B.A.; F. W. CLARK, B.A.; REV. J. W. MATHE-
SON, M.A.

Mathematics (First Year): REV. J. F. CROSS, M.A.; WILLIAM TIER, M.A.; N. R. WILSON, M.A. Ph.D.; REV. ARTHUR LEVÉILLÉ, S.J.

Higher and Engineering Mathematics: PROF. R. R. COCHRANE; PROF. E. BRYDONE-JACK; N. B. McLEAN, M.A.

Physics: PROF. FRANK ALLEN; REV. J. BLAIN, S.J.; REV. J. F. CROSS, M.A.

Natural Science: PROF. BULLER; PROF. ALLEN; PROF. VINCENT; PROF. PARKER.

Philosophy: REV. DR. SPARLING; REV. CANON MURRAY, M.A.; REV. DR. BAIRD; REV. P. BOURNIVAL, S.J.; REV. DR. ELLIOTT; REV. DR. FLEMING; W. A. CORBETT, M.A.

English: REV. DR. BRYCE; PROF. W. F. OSBORNE, M.A.; REV. CANON PHAIR, M.A.; B. A. SMYTH-PICOTT, Ph.B.

French: PROF. W. F. OSBORNE; J. STANLEY WILL, B.A.; A. D. BAKER, M.A.; REV. J. FILION.

German: J. STANLEY WILL, B.A.; A. D. BAKER, M.A.; C. F. WARD, B.A.

History: REV. DR. BLAND; REV. DR. BAIRD; REV. J. W. MATHESON, M.A.; REV. A. DUGRÉ.

Icelandic: REV. PROF. BERGMAN; REV. F. HALLGRIMSSON.

Swedish: PROF. EMIL LUNDKVIST; J. E. FORSLUND.

Hebrew: REV. DR. STEWART; REV. DR. PERRY.

Scripture: REV. DR. STEWART; REV. DR. PERRY; REV. CANON TALBOT.

Law

A. N. MCPHERSON, M.A., LL.B.; D. W. MCKERCHAR, M.A., LL.B.; DAVID FORRESTER, M.A., LL.B.; E. LOFTUS, M.A., LL.B.; J. E. O'CONNOR, M.A.; W. A. CORBETT, M.A.

Medicine

Medical Physics: PROF. ALLEN; REV. J. F. CROSS.

Botany and Zoology: PROF. BULLER; PROF. VINCENT.

Chemistry: PROF. PARKER; H. E. BLETCHER, Phm.B.

Theoretical Anatomy (First Year): DR. H. MACKAY; DR. J. E. COULTER.

Theoretical Anatomy (Second Year): DR. J. PULLAR; DR. R. W. KENNY.

Practical and Applied Anatomy: DR. J. R. DAVIDSON; DR. S. J. ELKIN; DR. FRED. YOUNG.

Physiology: PROF. VINCENT; DR. W. GARDNER; DR. W. WEBSTER.

Bacteriology and Pathology: DR. G. BELL; DR. S. J. S. PIERCE.

Histology: DR. C. H. VROOMAN; DR. J. H. LEEMING.

Therapeutics: DR. DEVINE; DR. J. A. MACDONALD.

Materia Medica and Pharmacy: DR. C. C. FIELD; DR. E. L. POPE.

Medical Jurisprudence: DR. W. ROGERS; DR. J. G. MUNROE.

Sanitary Science—DR. A. J. DOUGLAS; DR. MCCONNELL.

Sanitary Science: DR. A. J. DOUGLAS; DR. R. F. RORKE.

Clinical Medicine: DR. E. S. POPHAM; DR. E. W. MONTGOMERY; DR. A. W. MOODY; DR. C. HUNTER.

Theoretical Surgery: DR. J. O. TODD; DR. J. W. ARMSTRONG.

Clinical Surgery: DR. R. J. BLANCHARD; DR. J. HALPENNY;
DR. W. R. NICHOLS; DR. J. N. HUTCHISON.

Obstetrics and Diseases of Children: DR. D. H. MCCALMAN;
DR. JOHN TEES.

Gynaecology: DR. R. M. SIMPSON; DR. D. S. MACKAY.

Ophthalmology and Otology: DR. HARVEY SMITH; DR.
LATIMER.

C. M. Degree: DR. H. C. CUNNINGHAM; DR. J. R. GUNN.

Engineering

English: S. E. LANG, B.A. (Associated with Arts Examiners).

Logic: S. E. LANG, B.A. (Associated with Arts Examiners).

Agriculture

Animal Husbandry: PROF. W. H. PETERS; W. J. BLACK, B.S.A.

Biology: C. H. LEE, B.A.; PROF. F. W. BRODRICK.

Horticulture and Entomology: PROF. F. W. BRODRICK; C. H.
LEE, B.A.

Agricultural Chemistry: G. G. WHITE, B.S.A.; F. W. CHURCHILL, B.S.A.

Soil Physics, Etc.: F. G. CHURCHILL, B.S.A.; G. G. WHITE, B.S.A.

Mechanics: PROF. A. R. GREIG; PROF. E. BRYDONE-JACK.

Field Husbandry: PROF. S. A. BEDFORD; W. J. BLACK, B.S.A.

Veterinary Science: DR. F. TORRANCE; DR. MCGILLIVRAY.

Dairying: PROF. J. W. MITCHELL; MR. FARRELL.

English: PROF. G. A. SPROULE; REV. DR. BRYCE.

Matriculation

Classics: REV. DR. HART; VERY REV. DEAN COOMBES, M.A.; A. T. HAWLEY, M.A.; REV. T. HUDON, S.J.; R. O. JOLLIFFE, B.A.; F. W. CLARK, B.A.; REV. J. W. MATHESON, M.A.; D. McDUGALL, B.A.

Mathematics: REV. J. F. CROSS, M.A.; R. FLETCHER, B.A.; N. R. WILSON, M.A., Ph.D.; WM. TIER, M.A.; REV. A. LEVÉILLÉ, S.J.; W. N. FINLAY, B.A.

Natural Science: ALEX. MCINTYRE, M.A.; WM. TIER, M.A.; E. A. GARRATT, B.A.; N. R. WILSON, B.A., Ph.D.

English: REV. DR. STEWART; REV. CANON PILAIR, M.A.; S. E. LANG, B.A.; C. W. LAIDLAW, B.A.

French: A. D. BAKER, M.A.; C. F. WARD, B.A.; REV. JOHN FILION, S.J.; H. J. FOIK, B.A.

German: J. STANLEY WILL, B.A.; A. D. BAKER, M.A.; H. J. FOIK, B.A.

Icelandic: REV. PROF. BERGMAN; REV. F. HALLGRIMSSON.

Swedish: PROF. EMIL LUNDKVIST; J. E. FORSLUND.

History: DR. S. J. MCKEE; REV. A. T. COWLEY, M.A.; W. J. ROSE, B.A.; GEO. YOUNG, B.A.

**Supplemental and Matriculation Examiners
For September, 1909**

Classics: F. W. CLARK, B.A.; R. O. JOLLIFFE, B.A.; REV. CANON TALBOT.

Mathematics: REV. J. F. CROSS, M.A.; N. R. WILSON, M.A., Ph.D.

Elementary Science: ALEX. MCINTYRE, M.A.; PROF. ALLEN.

Chemistry: PROF. PARKER; E. A. GARRATT, B.A.

English: REV. CANON PHAIR, M.A.; W. J. SPENCE, B.A.

French: J. S. WILL, B.A.; REV. JOHN FILION, S.J.

German: A. D. BAKER, M.A.; J. S. WILL, B.A.

History: REV. DR. BLAND; REV. A. T. COWLEY, M.A.

Philosophy: REV. CANON MURRAY; REV. DR. ELLIOTT.

INSTRUCTION IN THE UNIVERSITY

Instruction in the University is at present given only in the Departments of Natural and Physical Science, Civil and Electrical Engineering, and Higher Mathematics. It is hoped that in the near future courses will be offered in English, History and Political Economy.

In all departments other than those in which the University offers teaching, students may obtain the necessary instruction either at one of the colleges affiliated with the University, or at any other recognized institution of learning.

TEACHING STAFF

ROBERT R. COCHRANE, B.A., *Chairman.*

MATTHEW A. PARKER, B.Sc., F.C.S., *Secretary.*

ROBERT R. COCHRANE, B.A.....*Professor of Mathematics*

FRANK ALLEN, B.A. Ph.D.*Professor of Physics*

GORDON BELL, B.A., M.D., C.M.....
.....*Professor of Bacteriology and Pathology*

A. H. REGINALD BULLER, B.Sc., Ph.D.
.....*Professor of Botany and Geology*

MATTHEW A. PARKER, B.Sc., F.C.S.....*Professor of Chemistry*

SWALE VINCENT, M.D., D.Sc., M.R.C.S., L.R.C.P.....
.....*Professor of Physiology and Zoology*

ERNEST BRYDONE-JACK, B.A., C.E., M. Can. Soc. C.E.
.....*Professor of Civil Engineering*

EDWARD P. FETHERSTONHAUGH, B.Sc., A.M. Can. Soc. C.E.....
.....*Professor of Electrical Engineering*

NEIL B. McLEAN, M.A.....*Lecturer in Mathematics*

W. WEBSTER, M.D., C.M.*Demonstrator in Physiology*
.....*Assistant in Chemistry*

COLLEGES AFFILIATED WITH THE UNIVERSITY

St. Boniface College, St. Boniface, in connection with the Roman Catholic Church. Rector—Rev. Father Filiatrault, S.J.

St. John's College, Winnipeg, in connection with the Episcopalian Church. Warden—Most Rev. Archbishop Matheson, D.D., D.C.L., Bishop's Court.

Manitoba College, Winnipeg, in connection with the Presbyterian Church in Canada. Principal—Rev. Wm. Patrick, M.A., D.D., Ellice Ave.

Wesley College, Winnipeg, in connection with the Methodist Church in Canada. Principal—Rev. J. W. Sparling, M.A., D.D., Kennedy St.

Manitoba Medical College, Winnipeg. Dean—H. H. Chown, B.A., M.D., C.M., Broadway Ave.

Manitoba College of Pharmacy, Winnipeg. Principal—H. E. Bletcher, Phm.B., Afton Block, Ellice Ave.

Manitoba Agricultural College, Winnipeg. Principal—W. J. Black, B.S.A.

MATRICULATION

Note 1. (a) All English--speaking candidates for this Examination shall take the following fixed subjects:

English,
History,
Mathematics,
Latin.

And any two of the following optional subjects:

Greek,
French,
German,
Icelandic,
Swedish,
Elementary Science.

(b) L'Examen d'Immatriculation pour les candidats de langue française comprend le Français, l'Histoire, les Mathématiques, le Latin, et deux quelconques des sujets, suivants : le Grec, l'Anglais, l'Allemand, l'Islandais, le Suédois, et la Science Élémentaire.

Note 2. (a) The subjects of this Examination may be taken at any Regular Examination, at one time, or may be divided into the following two parts, which, however, must be taken in the order as here given:

Part I.—English Grammar, History, Arithmetic, Algebra and Geometry, Elementary Latin, Botany, and the Elementary Grammar of the Language option or options which the candidate intends to select for Part II.

Part II.—English, Mathematics, Latin, and any two of the following options:—Greek, French, German, Icelandic, Swedish, Physics.

(b) Candidates who fail in not more than two papers of Part I., and not more than two papers of Part II., may take a Supplemental Examination in the papers in which they have failed, providing they have obtained the requisite standing on the aggregate of the marks. In case of a student failing in not more than two papers of Part I., he may take these papers when writing on Part II.

(c) Candidates presenting themselves for the full Examination at one time shall not be required to take the Elementary papers on Composition, Algebra and Geometry, Latin, Greek, French, German, Icelandic or Swedish of Part I.

Note 3. Candidates who are not prepared to write on the full Examination may offer themselves at any regular Examination in the whole of any subject or subjects of both parts of this Examination, such as all the English (including History), or all the Mathematics, etc., and on passing a satisfactory Examination (see Note 4 following) they shall receive credit therefor; but no such candidate taking the Examination according to subjects shall be allowed to proceed with the First Year until he has been examined in all the subjects and has satisfied the Examiners in all save one subject.

Note 4. Candidates taking the Matriculation by subjects in order to secure any credit shall be required to pass in half the papers they elect and to attain an average standing of 40 per cent. on all the papers they elect.

PART I.

English and History

Grammar—West's English Grammar; or
Grammaire Française; Larive et Fleury.

Composition—An essay on one of several themes set by the Examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

As a guide to teaching, Sykes' "Elementary Composition" is recommended.

The English papers will be examined for spelling, and the Examiners will include in their report a statement of the standing of each candidate in this subject. Students found deficient in this respect will be required to pass an examination in dictation before proceeding with their course.

History—Wright's British Nation. Clement's History of Canada; or
Drioux—Histoire d'Angleterre, et Bourgeois—Histoire du Canada.

Mathematics

Arithmetic and Mensuration—Advanced Arithmetic, omitting progressions and logarithms (Lyman, or Hamblin Smith, New Edition).

Algebra and Geometry—Hall and Knight's Elementary Algebra, Chaps. I.—XVII., inclusive, together with a knowledge of graphs sufficient for the solution of equations of the first degree.

Baker's Elementary Plane Geometry, Inductive and Deductive. Stress will be laid on ability to construct figures accurately.

In the demonstration of theorems the starting point shall be the definitions given in the prescribed texts.

Latin

Hagarty's Introductory Latin Grammar, pages 1 to 311.

Greek

White's Beginner's Greek Book, to page 148.

French

High School French Grammar, Part I.; or for French Students—Harvey's English Grammar (pages 1-104).

German

High School German Grammar, pages 1 to 178.

Icelandic

Wimmer's Icelandic Grammar, pages 19-90. Translation of easy passages from English into Icelandic and from Icelandic into English. Dictations and orthographical exercises. Selections from Melsled's Modern Authors.

Swedish

Sundin's Swedish College Grammar. Translation of Swedish into English and English into Swedish. Writing Swedish from dictation. Short essays. Selection from Modern Authors composed for Swedish Schools, Parts II. and IV.

Elementary Science

Botany—Elements of Botany, Bergen.

[From the 1904 and 1906 editions of Bergen's Botany the following pages are to be omitted: 210 (Classification of Cryptogams) to 262. The appendix will be examined on.]

PART II.

English

1. *Rhetoric and Composition*—

(a) The investigation of rhetorical principles along the lines laid down in Genung's "Outlines of Rhetoric."

(b) An Essay on one of several themes set by the Examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole Essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

Outlines of Rhetoric—Genung (Ginn & Co.).

(One paper of 3 hours.)

The marks shall be divided as follows: 25 per cent. for Principles of Rhetoric and 75 per cent. for the Essay.

2. *Literature*—Intelligent comprehension of, and familiarity with, the prescribed texts shall be required, and the candidate shall be expected to have memorized some of the finest passages. (One paper of 3 hours.)

1909. COLERIDGE: The Ancient Mariner.

SHAKESPEARE: The Merchant of Venice.

MACAULAY: Warren Hastings.

1910. SHAKESPEARE: Julius Cæsar.

TENNYSON: Ode to Memory, The Dying Swan, The Lotus Eaters, Ulysses, "You ask me why," "Of old sat Freedom," "Love thou thy land," "Tears, idle tears," and the six interlude songs from The

Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade, Enoch Arden.

MACAULAY: Clive.

The English papers will be examined for spelling, and the Examiners will include in their report a statement of the standing of each candidate in this subject. Students found deficient in this respect will be required to pass an examination in dictation before proceeding with their course.

FRENCH EQUIVALENTS.

In lieu of the English the following will be the French equivalents for French-speaking candidates:

1. (a) *Principes de Littérature*: Mestrc (pages 13-218, et 413-433). Principes généraux, genres en prose et versification française.

(b) Un essai d' à peu près deux pages, grand format, sur un des sujets indiqués par les examinateurs. L'écriture devra être lisible, l'orthographe et la ponctuation correctes, et la construction des phrases soignée. Il faudra aussi faire attention au plan général de la composition, à l'ordonnance des idées, et à la propriété des termes. Sa valeur dépendra plutôt de la qualité que de la quantité.

On allouera 25% pour les principes de Littérature et 75% pour l'essai.

Extraits en Prose: Molière, Mde. de Sévigné, La Bruyère, être bien compris du candidat et lui être familiers; il devra aussi avoir appris par coeur quelques uns des plus beaux passages.

(Épreuve de 3 heures.)

1910. MODÈLES FRANÇAIS: *Procès*, Tome II.

Extraits en Prose: Molière, Mde. de Sévigné, La Bruyère, Hamilton, Fénelon, Le Sage, Buffon, J. J. Rousseau, Joseph et Xavier de Maistre, Thiers, Veuillot et Daudet.

Extraits Poétiques: Corneille, Racine, Regnard, Lamartine, Delavigne, Hugo, Coppeé.

RACINE: Esther.

1911. MODÈLES FRANÇAIS, comme en 1910.

RACINE: Les Plaideurs.

(Épreuve de 3 heures.)

Mathematics

1. *Algebra*—Hall and Knight's Elementary Algebra, 8th edition, Chapters 1.-XXVIII., XXX. to par. 235, XXXII.-XXXV., including graphs for equations of first and second degrees.

(One paper of 3 hours.)

2. *Geometry*—Baker's Theoretical Geometry for Schools to page 209.

In demonstrating a proposition whose proof is given in the prescribed text no use shall be made of a proposition which in the said text follows the required proposition.

(One paper of 3 hours).

In the demonstration of theorems the starting point shall be the definitions given in the prescribed texts.

Latin

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of passages from some easy prose author, to which special importance will be attached. Candidates will be expected to have supplemented the reading of the prescribed texts by additional practice in the translation of Latin.

Grammatical questions on the passages from prescribed texts shall be set, and such other questions as arise naturally from the context.

Translation into Latin of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts:—

CAESAR: *Bellum Gallicum*, Book IV., Chapters 20-38, and Book V., Chapters 1-23.

VERGIL: *Æneid*, Book I., ll. 1-510.

Two papers as follows:—

- (1) Vergil and Cæsar. (One paper of 3 hours.)
- (2) Latin Grammar, Prose Composition and Sight Translation.

[N.B.—Robertson and Carruthers' "Matriculation Latin" (1909 Edition) contains all the work prescribed for Part II. in Authors and Prose Composition.]

(One paper of 3 hours.)

Greek

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of passages from some easy prose author, to which special importance will be attached. Candidates will be expected to have supplemented the reading of the prescribed texts by additional practice in the translation of Greek.

Grammatical questions on the passages from prescribed texts shall be set, and such other questions as arise naturally from the context.

Translation into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following is the prescribed text:—

SELECTIONS FROM XENOPHON, *Anabasis* I., in White's *Beginner's Greek Book*, and *Anabasis* II.

Two papers as follows:—

- (1) XENOPHON. (One paper of 3 hours.)

- (2) Greek Grammar, with simple Prose Composition, based on White's Beginner's Greek Book, pp. 1-148 and Lessons lix, lxii, lxv, lxviii, lxx, lxxii, lxxiv, lxxvii, lxxix, lxxxi, and also the paradigms on pages 282-301.

Sight Translation.

(One paper of 3 hours.)

French

1. (a) *Grammar*.—High School French Grammar, Part II., pages 129 to 233 inclusive, with the associated exercises.

(b) *Composition*.—(1) Translation into French of short sentences as a test of the candidate's knowledge of grammatical forms and structure, and the formation in French of sentences of similar character; and (2) translation of easy passages from English into French.

2. *Authors*.—Translation of unspecified passages from easy French Authors. An examination on the following texts:

1909. Either (a) or (b) following:

(a) LAMENNAIS, *Paroles d'un Croyant*, Chaps. VII. and XVII.; PERRAULT, *Le Maître Chat ou Le Chat Botté*; DUMAS, *Un Nez Gelé*, and *La Pipe de Jean Bart*; ALPHONSE DAUDET, *La Dernière Classe*, and *La Chèvre de M. Seguin*; LÉGOUVÉ, *La Patte de Dindon*; POUVILLON, *Hortibus*; LOTI, *Chagrin d'un Vieux Forçat*; MOLIÈRE, *L'Avarc*, Acte III., Sc. 5 (*Est-ce à votre Cocher . . . sous la mienne*); VICTOR HUGO, *Waterloo*, Chap. IX.; ROUGET DE L'ISLE, *La Marseillaise*; ARNAULT, *La Feuille*; CHATEAUBRIAND, *L'Exilé*; THÉOPHILE GAUTIER, *La Chimère*; VICTOR HUGO, *Extase*; LAMARTINE, *L'Automne*; DE MUSSET, *Tristesse*; SULLY PRUDHOMME, *Le Vase Brisé*; LA FONTAINE, *Le Chêne et le Roseau*.

(b) SOUVESTRE: *Un Philosophe sous les Toits*.

1910. SOUVESTRE: *Un Philosophe sous les Toits*.

ENGLISH EQUIVALENTS.

In lieu of the French the following will be the English for French-speaking students :

1. (a) *Grammaire*—Harvey's Practical Grammar of the English language, pp. 1-135. (Amer. Book Co.)

(b) *Composition*—(1) Traduire du français en anglais quelques phrases assez courtes, qui montrent que le candidat sait appliquer les règles de la grammaire; construire quelques phrases anglaises du même genre. (2) Traduire en anglais quelques passages faciles de prose française.

2. *Auteurs*—Version tirée d'auteurs anglais faciles à comprendre et non connus d'avance. Examen sur les auteurs prescrits :

DICKENS—A Christmas Carol.

IRVING—Sketch Book. (Hachette).

German

1. (a) *Grammar*. High School German Grammar.

(b) *Composition*—(1) Translation into German of short English sentences as a test of the candidate's knowledge of grammatical forms and structure, and the formation in German of sentences of similar character; and (2) translation of easy passages from English into German.

2. *Authors*—Translation of unspecified passages from easy German Authors. An examination on the following texts :

1910. ZSCHOKKE, Der Zerbrochene Krug; HEINE, Lorelei, Du bist wie eine Blume; UHLAND, Schæfer's Sonntagslied, Das Schloss am Meer; CHAMISSO, Das Schloss Boncourt; CLAUDIUS, Die Sterne, Der Riese Goliath; GOETHE, Mignon, Erlkœnig, Der Sænger; SCHILLER, Der Juengling am Bache.

HAUFF: Das Kalte Herz.

Icelandic

1. (a) *Grammar.*

(b) *Composition*.—(1) Translation into Icelandic of idiomatic expressions and phrases in English. Construction of sentences in Icelandic as a test of knowledge of grammatical forms and structure; (2) translation of passages from Icelandic into English.

2. *Authors*.—Translation of unspecified passages from easy Icelandic Authors. An examination on the following texts:

1909.—JÓN THORODDSEN, Ísland, Til Íslendinga, Dálftil Ferðasaga; GRÍMUR THOMSEN, Jólnasumbl, Á Glæsivöllum, Skúli fógeti, Skúlaskeið, Kirkjugarðsvísur, Glámur, Sköfnungur; ÁRNASON og GRÍMSSON, Álfadans, Gilitrutt, Djákninn á Myrká, Frá Sæmundi fróða, Seint fyllist sálin prestanna, Jón frá Geitaskarði, Sagan af Hlini konungssyni; BENEDICT GRÖNDAL, Æskan, Prometheus, Hret, Heim, Hugsum, Hugrún, Ur Heljarslóðarorustu; PÁLL ÓLAFSSON, Litli fossinn Sumarkveðja, Systurminning; GUÐBR. VIGFÚSSON Tímatal, Ur ferðasögu; GÍSLI BRYNJÓLFSSON, Úr Faraldi Grátur Jakobs yfir Rakel, Endurminningar, Vísur, STEINGRÍMUR THORSTEINSSON, Gilsbakkaljód, Haustkvöld, Kveðja, Vorhvat, etc.; MATTH. JOCHUMSSON, Lofsöngur, Þingvallaminni, Guðbrandur Hólabiskup, Eggert Ólafsson, Nýársósk, Sorg.

1910.—The whole of Melsted's Reader, Modern Authors, including biographical matter.

Swedish

1. (a) Beckman's Advanced Swedish Grammar.

(b) *Composition*.—Translation from Swedish into English and from English into Swedish of idiomatic expressions. Writing of short essays.

2. *Authors*.—Translation of easier passages from Modern Authors. Examination on the following text:

1909. FRANZÉN, Människans anlete, Afskedssång af be-
väringsmän; A. M. LENGREN, Pojkarna, Den glada fe-
sten, Porträtterna, Fröken Juliana; C. M. BELLMAN, Haga,
Fiskarfånget; KARL DAVID AF WIRSEN, Sikars Brunn,
Källan, Deltagande, Pelarskogen i San Paolo, Sverige; E.
SEHLSTEDT, Snösparven, Våren kommer, Visa; Z. TOPE-
LIUS, Min moder, Vintergatan; P. VIKNER, Min moders
testamente; B. E. MALMSTRÖM, Ur minnestal öfver E. G.
Geijer, Angelika, Hvi suckar det så tungt uti skogen, Ödmju-
ken er; C. A. NICANDER, Vågen, Mitt lif, min sång, min död.

1910. KELLGREN, Den nya skapelsen; A. FRYXELL,
Slaget vid Lytzen; E. G. GEIJER, Manhem, Ur minnen;
J. O. WALLIN, Blick till graven, Tal till svenska bibelsällska-
pet 1886, Höst betraktelse; SJÖBERG, (Vitalis) Försakelse,
Enslingens sång, Den bästa vännen, Frid, Stagnelius; AT-
TERBOM, Ur lycksalighetens ö; DALGREN, Vårsång;
GRAFSTRÖM, Norrland, Sensitivan, Harpan; VENNER-
BERG, Ur gluntarna, En solnedgång; V. RYDBERG, Dexip-
pos, Ur romerska kejsare i marmor, (Tiberius).

Elementary Science

Physics—High School Physical Science, Part I. (Revised
edition.)

Each paper of this Examination shall be of three hours' duration,
and shall be considered a separate subject in considering failures.

The marks to be assigned shall be as follows:

One hundred marks for each *paper* of Part I. and Part II.

A candidate in order to pass in English must have 40 per cent. in each paper.

To pass in any other paper a candidate must have 34 per cent. of the marks in that paper, and to pass the whole examination, and be placed in III. Class, he must have 40 per cent. on the aggregate of the marks. If he fail to obtain 40 per cent. he shall be required to take the whole examination again.

To obtain Second Class standing he must have 50 per cent on the aggregate of the ordinary papers.

To obtain First Class standing he must have 67 per cent. on the aggregate of the ordinary papers.

Ordinary candidates who have failed in not more than two papers, and Candidates taking the Examination *according to subjects*, and who have been examined in all the subjects and have satisfied the Examiners in all save one subject (provided they have presented themselves at the *next ensuing examination*, and have again failed), may, as Conditioned Students, offer themselves for the Examination of the First Year; but such conditions must in each case be removed before the commencement of the Second Year. (This regulation should be read in conjunction with the regulations relating to Supplemental Examinations. See page 152.)

This Examination is held in May of each year, commencing on the fourth Monday, and in September commencing on the third Thursday. The Examination in May is held in the University Building and at Local Centres as provided for under the University Rules and Regulations; the September Examination is held at the University Building only.

Note—Students passing the Matriculation Examination with first class grade "B" or higher standing may obtain from the Department of Education for Manitoba a Second Class non-professional Teacher's Certificate, upon passing examinations in Book-keeping, Agriculture, Music, Drawing and Botany. A third class non-professional certificate is granted to students making Second Class standing in the Matriculation Examination. Students falling below Second Class standing receive no recognition whatever under the Regulations of the Department of Education.

CURRICULUM IN ARTS

FIRST YEAR

NOTE 1.—All English-speaking candidates for this Examination shall take the following fixed subjects: English, Mathematics, Latin, History, and any two of the following options: Greek, French, German, Icelandic, Swedish, Biology (Botany and Zoology).

NOTE 2.—L'Examen pour les candidats de langue française comprend le Français, les Mathématiques, le Latin, l'Histoire, et deux quelconques des sujets suivants: le Grec, l'Anglais, l'Allemand, l'Islandais, le Suédois, la Biologie (la Botanique et la Zoologie).

English

- (1) Critical reading of the following:

1909—SHAKESPEARE: Julius Cæsar.

1910—SHAKESPEARE: The Tempest.

(One paper of 3 hours.)

- (2) Prose Literature, Rhetoric and Composition. The following are prescribed:

Study of Sherman's "Analytics of Literature,"
Chapters I-X, inclusive, and XIV, XV, XVI,
XXI, XXII, XXIII, XXIV, (Ginn & Co.);
together with:—

1909—CARLYLE: Essay on Burns.

1910—Modern English Prose, Carpenter and Brewster,
pages 1—108 (The Macmillan Company).

The examination will include an essay, to be composed on one of a number of assigned subjects, which will be based on the prescribed prose selections.

(One paper of 3 hours.)

In addition to the above, there will be required, during the term, from each student of the First Year one essay. This must be written in the University Building, in the presence of one examiner or more, at 2 p.m. on the 8th day of January. The essay is not to exceed one thousand words, nor fall below five hundred in length.

[N.B.—Non-collegiate students are not required to write this essay.]

The Essay for 1909-10 shall be:—

Samuel de Champlain.

FRENCH EQUIVALENTS.

In lieu of the above English, the following shall be the French equivalents for French-speaking students:

(1) Étude critique des auteurs:—

1909—CORNEILLE: Polyeucte.

1910—CORNEILLE: Horace.

1911—MOLIERE: L'Avare.

(Epreuve de trois heures.)

(2) Prose, Littérature et Composition:—

- | | | |
|------|---|--|
| 1909 | { | Préceptes de la Littérature par MESTRE, 362 premières pages. |
| | | PROCÈS: Volume de Seconde. Extraits en prose, contenus dans les 400 premières pages. |
| 1910 | { | <i>Principes de Littérature</i> : MESTRE (pages 109—412). Prose and Poésie. |
| and | | |
| 1911 | | <i>Modèles Français</i> .—PROCÈS, Tome II. |

Tous les extraits en Prose qui n'ont pas été étudiés pour l'examen d'Immatriculation.

L'examen doit comprendre un essai sur un de plusieurs sujets proposés au choix du candidat en imitation des auteurs indiqués.

(Epreuve de trois heures.)

De plus, dans le courant de l'année scolaire, chaque candidat écrira, dans une salle de l'Université, une composition qui devra être remise au Régistrare le 8 janvier. Cette composition devra renfermer au moins cinq cents mots et ne pas dépasser mille.

Sujet de Composition :

1909-1910—Les sources d'originalité de la Littérature Canadienne Française.

Mathematics

- (1) *Geometry*—1909—Baker's *Geometry for Schools*, page 209 to the end.

1910—Baker's *Geometry for Schools*, Book V. and propositions 13, 14, 15, 18, 19 and 20 in appendix.

In demonstrating a proposition whose proof is given in the prescribed text, no use shall be made of a proposition which in the said text follows the required proposition.

Analytic Geometry of point, line and circle for rectangular axes. (Baker's *Analytic Geometry for Beginners*.)

- (2) *Algebra*—1909—Hall and Knight's *Elementary Algebra*, Chapters XXX., XXXI., XXXV.-XXXIX., XLII., XLIV.

1910—Hall and Knight's *Elementary Algebra*, Chapters XXX., XXXI., XXXVI.-XXXIX., XLII., XLIV.

- (3) *Trigonometry*—1909—Hall and Knight (1th edition), Chapters I.-XVIII., inclusive.

1910—Hall and Knight, Chapters I.-XVIII., inclusive as far as page 207. No questions will be set involving a knowledge of circular measure.

(Three papers of three hours each shall be set.)

In the demonstration of theorems the starting point shall be the definitions given in the prescribed texts.

Latin**(1) Authors—**

1909—HORACE: Odes III., omitting 7, 9, 10, 12, 15, 20, 26.

CICERO: Pro Lege Manilia.

1910—HORACE: Selected Odes, omitting 9, 14, 31. (Wickham, Clarendon Press).

CICERO: In Catilinam I., and Pro Archia.

1911—HORACE: Selected Odes, omitting 9, 14, 31. (Wickham, Clarendon Press).

CICERO: Pro Lege Manilia.

(2) Grammar—BENNETT: With special reference to Parts I.-IV.

Composition—BRADLEY—ARNOLD's Latin Prose Composition (exercises 1-44), with simple continuous prose passages.

Sight Translation.

— —

History

Botsford's History of Rome (Morang & Co., Toronto); or, Histoire Romaine (Abbé P. Gagnol).

— — —

Greek**(1) Authors—**

1909—HOMER: Odyssey IX. (Merry, Clarendon Press).

LUCIAN: Vera Historia, Books I. and II. (Jeram, Clarendon Press).

1910—HOMER: *Odyssey VII.* (Merry, Clarendon Press.)

LYSIAS: *Contra Eratosthenem.* (Shuckburgh, Macmillan & Co.)

1911—HOMER: *Odyssey IX.* (Merry, Clarendon Press.)

LUCIAN: *Vera Historia, Books I. and II.* (Jeram, Clarendon Press.)

(2) *Grammar*—Goodwin's *Greek Grammar*, with special reference to Parts I. and II.

Composition—Pitman's *Greek Prose Composition.* (Macmillan & Co.)

Sight Translation.

French

(1) *Grammar and Composition.* Dictation and Sight Translation. *High School French Grammar.* A study of the irregular verbs, and pages 233-336 inclusive, with associated exercises.

(2) An examination on prescribed texts:

1909—LABICHE: *Les Petits Oiseaux.*

VERNE: *Tour du Monde en quatre-vingts Jours.*

1910—AUGIER: *Le Gendre de M. Poirier.* (Heath.)

BAZIN: *Contes Choisis.* (Heath.)

ENGLISH EQUIVALENTS.

In lieu of the above French, the following will be the English for French-speaking students.—

(1) *Grammaire et Composition.* Dictée et Traduction à première vue. *Harvey's Practical English Grammar* (de la page 105 à la page 192).

(2) Examen sur les auteurs:—

1909—SHAKESPEARE: Julius Cæsar.
NEWMAN: Callista.

1910—SHAKESPEARE: Macbeth.
GOLDSMITH: The Deserted Village.

German

(1) *Grammar and Composition.* Dictation and Sight Translation. High School German Grammar

(2) An examination on prescribed texts:—

1909—ERNEST: Flachsmann als Erzieher. (Ginn & Co.)

HILLERN: Höher als die Kirche. (Ginn & Co.)

1910—KELLER: Kleider Machen Leute. (Heath & Co.)

FREYTAG: Die Journalisten. (Ginn & Co.)

Icelandic

(1) *Grammar and Composition.* Writing Icelandic from dictation. Translation from Icelandic into English, and from English into Icelandic. Writing of short essays and digests of books.

(2) An examination on prescribed texts:—

1909—Njal's "Saga."

1910—Laxdæla Saga.
Gunnlaug's Saga Ormstungu.

Swedish

(1) *Grammar and Composition*. Translation from English into Swedish and from Swedish into English. Writing of essays.

(2) Examination on prescribed texts:—

Esaias Tegner: Fritiof's Saga.

Swedish Literature from 1772 to 1830.

KARL WARTBURG: Svensk Literaturhistoria.

A. EKERMAN: Läsebok till Svenska Literaturhistorian.

Biology

Botany—

Classification of objects. Comparison of living and non-living matter, and of plants and animals.

The Morphology of the Seed; Germination; the external morphology of the Seedling. The Physiology of germination; the general nature of the reserve food-stuffs; the relations of the Seedling with external conditions and natural forces; the theory of Irritability. Growth to exhaustion, and the general conditions of active life and self-nutrition.

The general morphology of the Plant Body, and the principal modifications in form and distribution of the vegetative members, Root, Shoot, and Leaf.

Protoplasm as the physical basis of life; the Cell, and its principal modifications for special purposes; development and distribution of the Tissues, considered especially from a physiological standpoint.

The Leaf as a bio-anatomical study; epidermis, vascular bundle, ground-tissue, intercellular spaces.

The internal morphology of the Stem in its chief modifications; the results of cambial activity; the secondary protective tissues, Cork and Bark. The Root.

The Bud; the principal characteristics of increase in length in shoot and root.

The phenomena of climbing, and illustrations of special powers of movement.

The elementary facts in the Nutrition of the plant, including the nature and sources of the raw materials of food, and the constitution of the soil; Absorption and the Transpiration Current; the nature and functions of Chlorophyll; the broad principles of metabolism, and the distribution, storage, and utilisation of its products. Respiration.

Nutrition without chlorophyll, and special fermentative changes, illustrated by Yeast, Bacteria and Molds. Degrees of Parasitism in Flowering Plants. Insectivorous Plants.

Reproduction, Asexual and Sexual, further illustrated by *Spirogyra*, *Vaucheria*, *Fucus*, and *Agaricus*. The primary divisions of the Vegetable Kingdom, viz.: Thallophyta; Bryophyta (illustrated by a moss-plant); Pteridophyta (a fern-plant); and Phanerogamia (flowering plants).

The general character and structure of the reproductive organs in Phanerogamia; pollination and its methods; fertilisation; the development of the seed and the fruit; seed protection and dispersal; the natural spread of plants and its limitations.

The Flower, and its chief modifications in structural plan. Examples of Natural Orders.

The following books of reference are recommended:

A Text-book of Botany, Strasburger. (The Macmillan Company.)

Principles of Botany, Bergen and Davis. (Ginn & Co.)

Flowers, Fruits and Leaves, Sir John Lubbock. (The Macmillan Company.)

Zoology—

See Syllabus, page 107.

Each paper of this examination shall be regarded as a separate subject in considering failures.

A candidate, in order to pass in any paper, must have 34 per cent. of the marks in that paper, and to pass the whole examination and be classed in Class III. he must have 40 per cent. of the aggregate of the marks assigned. If he fail to obtain 40 per cent. he shall be required to take the whole examination again.

To obtain Second Class standing he must have 50 per cent. on the aggregate of the ordinary papers.

To obtain First Class standing he must have 67 per cent. on the aggregate of the ordinary papers.

Candidates who may have failed in not more than two papers in the examination may, as Conditioned Students, proceed with their course, with the view of subsequently obtaining the full standing of the First Year, provided they have presented themselves at the *next ensuing examination*, and have again failed; but such conditions must be removed before the commencement of the Third Year. (This regulation should be read in conjunction with the regulations relating to Supplemental Examinations. See page 152.)

NOTE.—Students passing the Examination of the First Year with First Class grade "B" or higher standing may obtain from the Department of Education for Manitoba a First Class non-professional Teacher's Certificate. Students passing with Second Class standing may obtain Second Class non-professional certificates, subject in each case to passing in Book-keeping, Agriculture, Music, Drawing and Botany.

SECOND YEAR

NOTE 1.—All English-speaking candidates for this Examination shall take the following fixed subjects: English, Philosophy, Latin, History, and any two of the following options: Greek, French, German, Icelandic, Swedish, Mathematics, Chemistry, Physics.

Students intending to take the Mathematical Course or the Natural Science Course are recommended to choose as their options two of the following: Mathematics, Chemistry, Physics.

NOTE 2.—L'Examen de la deuxième année pour les candidats de langue française comprend le Français, la Logique, le Latin, l'Histoire, et deux quelconques des sujets suivants: le Grec, l'Anglais, l'Allemand, l'Islandais, le Suédois, les Mathématiques, et la Chimie.

English

(1) Critical reading of the following:

1909—SHAKESPEARE: As You Like It.

MILTON: Samson Agonistes.

1910—SHAKESPEARE: Hamlet.

(One paper of three hours.)

(2) Prose Literature, Rhetoric and Composition. The following are prescribed:

1909—BURKE: Speeches on American Taxation, and on Conciliation with America, and his Letter to the Sheriffs of Bristol. (Macmillan, ed. by Selby.)

Carpenter's Rhetoric and English Composition.
(Chapters XI.-XVII., inclusive.)

1910—Stopford Brooke's Primer of English Literature.
Modern English Prose, Carpenter and Brewster,
pages 215-329. (The Macmillan Company).

This examination will include an essay to be composed on one of a number of assigned subjects which will be based on the prescribed prose selections.

(One paper of three hours.)

In addition to the above, there will be required, during the term, from each student in the Second Year one essay. This must be written in the University Building, in the presence of one examiner or more, at 2 p.m. on the 8th day of January. The essay is not to exceed one thousand words, or fall below five hundred in length. (Non-collegiate candidates are not required to write this essay.)

The Essay for 1910 shall be:

Poetical Tragedies of Wilfred Campbell.

FRENCH EQUIVALENTS.

In lieu of the above English the following shall be the French for French-speaking students.

(1) Étude critique des auteurs:

1909—PROCÈS: Tome III. Extraits en Poésie: Lamartine, Hugo, Musset, Gilbert, Laprade, Sully Prud'homme, A. Chénier, Molière.

1910—MODÈLES FRANÇAIS; Procès, Tome III. Extraits en Poésie: Lamartine, Hugo, Musset, Gilbert, Laprade, Sully Prud'homme, A. Chénier, Molière.

MOLIÈRE: Les Precieuses Ridicules.

(Épreuve de trois heures.)

(2) Prose, Rhétorique et Composition.

1909—MESTRE: Préceptes de rhétorique avec les extraits des orateurs.

1909—BOSSUET: Oraison funèbre d'Henriette de France.

COUBÉ: Jeanne d'Arc.

1910—MANUEL DE LITTÉRATURE: Verest, Livre IV.:
L'Eloquence (pages 532-669).

LACORDAIRE: Éloge du Général Drouot.

RIVAROL: De l'universalité de la langue française.

BOSSUET: Oraison funèbre de Condé.

L'examen doit comprendre un essai sur un de plusieurs sujets proposés au choix du candidat en imitation des auteurs indiqués.

(Épreuve de trois heures.)

De plus, dans le courant de l'année scolaire, chaque candidat écrira, dans une salle de l'Université une composition, qui devra être remise au Régistrare le 8 janvier. Cette composition devra renfermer au moins cinq cents mots et ne pas dépasser mille.

Le Sujet—1910—L'Eloquence de Papineau.

Philosophy

(1) Logic—Creighton, Introduction and Part I.; or Russo.

(2) Ethics—Janet: Elements of Morals.

Latin

(1) *Authors*

1909—HORACE: Ars Poetica. (Wilkins, Macmillan & Co.)

VERGIL: Georgics, IV. (Sidgwick, Pitt Press.)

CICERO: De Senectute. (Reid, Pitt Press.)

1910—HORACE: Epistles I., omitting 3, 5, 8, 9, 17, 18.
(Shuckburgh, Pitt Press Series.)

LIVY: Book XXII.

1911—CICERO: De Senectute.

VERGIL: Aeneid VI.

- (2) *Grammar*—Bennett, with special reference to Parts V. and VI.

Composition—Bradley-Arnold's Latin Prose Composition (completed). Continuous Prose.

Sight Translation.

History

Botsford's History of Greece. (Morang & Co., Toronto); or, Histoire de la Grèce Ancienne. (Abbé P. Gagnol.)

Greek

- (1) *Authors*—

1909—EURIPIDES: Alcestis. (Hadley, Pitt Press.)

HOMER: Iliad I. (Monro.)

PLATO: Apology. (Adam, Pitt Press.)

1910—EURIPIDES: Hecuba. (Heberden, Clarendon Press.)

HOMER: Iliad III. (Monro, Clarendon Press.)

PLATO: Laches. (Tatham, Macmillan & Co.)

1911—EURIPIDES: Alcestis. (Hadley, Pitt Press.)

HOMER: Iliad I. (Monro.)

PLATO: Apology. (Adam, Pitt Press.)

- (2) *Grammar*. Goodwin's Greek Grammar, with special reference to Parts III.-V.

Composition. Sidgwick's Greek Prose, Part I.

Sight Translation.

French

(1) Grammar and Composition, Dictation and Sight Translation.

(2) An examination on prescribed texts:

1909—LA FONTAINE: Fables, Books V. to VIII.

MÉRIMÉE: Colomba.

LAMARTINE: Christophe Colomb.

1910—LA FONTAINE: Fables, Books IX.-XII., inclusive.

DE VIGNY: La Canne de Jonc. (Heath.)

CRÉMAZIE AND FRÉCHETTE: Poems in Les Fleurs de la Poésie Canadienne.

ENGLISH EQUIVALENTS.

In lieu of the above French, the following shall be the English for French-speaking students:

(1) Grammaire et Composition. Dictée et Traduction à première vue. Harvey's Practical English Grammar (de la page 192 à la fin.)

(2) Examen sur les auteurs:

1909—MILTON: Paradise Lost, Book I. (Poussielgue Frères).

BENSON, R. H.: By What Authority (First 13 chapters).

1910—MILTON: Paradise Lost, Book I.

SHAKESPEARE: Julius Cæsar.

German

(1) Grammar and Composition, Dictation and Sight Translation. High School German Grammar.

(2) An examination on prescribed texts :

1909—BLÜTHGEN: Das Peterle von Nürnberg. (Heath & Co.)

SCHILLER: Wilhelm Tell. (Palmer-Holt & Co.)

1910—HEINE: Die Hartzreise, with lyrical selections. (Ginn & Co.)

SCHILLER: Die Jungfrau von Orleans. (Holt & Co.)

Icelandic

(1) Grammar and Composition. Dictation, Translation and Essays.

(2) Examination on prescribed texts :

1909—The Elder Edda, complete, edited by Finnur Jónsson.

1910—Sæmundar Edda, complete, ed. Finnur Jónsson.
Collateral Reading: The prose part of Snorra Edda.

Swedish

(1) *Grammar and Composition.* Translation and essays.

(2) Examination on prescribed text:—

1909—J. L. RNEBERG: Fänrik stals sägner.

Swedish Literature from 1830 to present time.

KARL WARTBURG: Svensk literaturhistoria.

A. EKERMAN: Läsebok till Svenska literaturhistorien.

1910—KARL SNOILSKY: Svenska bilder.

J. O. WALIN: Dödens ängel.

Swedish literature from 1830 to the present time.

KARL WARTBURG: Svensk literaturhistoria.

A. EKERMAN: Läsebok till Svenska literaturhistorien.

Mathematics

(1) *Solid Geometry*—Hall and Stevens' School Geometry, Part VI.

Analytical Geometry—Baker's Analytical Geometry, Chapters 6-9, inclusive.

(2) *Algebra*—Hall and Knight's Higher Algebra, Chapters 1, 2, 3, 6, 8, 9, 10, 12, 13, 14, 17, 18.

Trigonometry—Hall and Knight's Plane Trigonometry (1th edition or later editions), Chapters 19-23, inclusive.

Two papers shall be set—one on Geometry and one on Algebra and Trigonometry.

A detailed syllabus of the course of study will be supplied to students at the beginning of the session.

Chemistry

The course consists of about seventy lectures, and will be treated as outlined in the schedule on page 98.

Each paper of this examination shall be regarded as a separate subject in considering failures.

The same percentages are required as for the examination of the First Year.

No student shall be allowed to present himself for examination in Chemistry, in Mathematics, or in Physics of this Year who does not present from the Faculty of Science, or from an affiliated college where such work is done in the college, a certificate of having attended 75 per cent. of the lectures delivered in said subject. This regulation, however, shall not affect any non-collegiate candidate for examination.

Candidates who have failed in not more than two papers in this examination may, as Conditioned Students, proceed with their course, with the view of subsequently obtaining the full standing of the Second Year (provided they have presented themselves at the *next ensuing examination*, and have again failed), but such conditions must be removed before the commencement of the Fourth Year. (This regulation should be read in conjunction with the regulations relating to Supplemental Examinations. See page 152).

THIRD AND FOURTH YEARS

After completing the First and Second Years a student may proceed to a Degree in Arts by pursuing any one of the following Courses, viz.:

- (a) A General Course.
- (b) A Course in Classics.
- (c) A Course in Mathematics.
- (d) A Course in Modern Languages.
- (e) A Course in Philosophy.
- (f) A Course in Natural and Physical Science.

In the General Course, and in all the other Courses (except Modern Languages) a student must obtain 34 per cent. on each paper and 40 per cent. on the total in order to pass. In case a student in any course fail on three papers or less, he shall be allowed a supplemental examination if he makes 40 per cent. on the total. If he fail on more than three papers, or fail to obtain 40 per cent. on the total, he shall be required to take the whole examination again. Sixty-seven per cent. is required for first class and 50 per cent. for second class.

For the marks required for classification in Modern Languages, students will consult the announcements concerning this department.

A.—GENERAL COURSE—THIRD YEAR

NOTE 1.—All English-speaking students shall take the following fixed subjects: English, Philosophy, Latin or Greek, Physics. And one of the following options: Greek or Latin (the one not already taken), French, German, Hebrew, Scripture, Mathematics.

NOTE 2.—French-speaking students will substitute French for English in the fixed subjects, and English for French in the optional subjects.

English (or French)

(1909 and every alternate year.)

- (a) ALEXANDER POPE : Windsor Forest; An Essay on Criticism.

WORDSWORTH : Ruth; Hart-Leap Well; The Affliction of Margaret; The Leech Gatherer; The Brothers; Influence of Natural Objects; Lines Composed a Few Miles Above Tintern Abbey; French Revolution; Nutting.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Life of Alexander Pope, by LESLIE STEPHEN.

Life of Wordsworth, by F. W. H. MYERS.

- (b) TENNYSON : Enone; Ulysses; Lucretius; Becket.

GEORGE ELIOT : Adam Bede.

DE QUINCEY : The English Mail Coach.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Life of Tennyson, by H. J. JENNINGS.

Life of George Eliot, by LESLIE STEPHEN.

Life of De Quincey, by Prof. DAVID MASSON.

(1910 and every alternate year.)

(a) CHAUCER: Prologue to the Canterbury Tales.

SHAKESPEARE: Sonnets, Nos. 18-155, inclusive.

The Prose of Milton.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Chaucer, by A. W. POLLARD.

Milton, by MARK PATTISON.

Introduction to Shakespeare, by EDWARD DOWDEN (Chas. Scribner's Sons, 1896).

(b) The Ballads contained in "A Ballad Book," edited by K. L. Bates.

Spenser's "Faerie Queene," Book I., Cantos I and II.

Milton's Sonnets.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Life of Spenser, by DEAN CHURCH.

FOR FRENCH-SPEAKING STUDENTS.

(1909 and every alternate year.)

MOLIÈRE: L'Avare.

CORNEILLE: Les Horaces.

RACINE: Les Plaideurs.

VEREST: Littérature.

(1910 and every alternate year)

BOILEAU: Satires.

RACINE: Iphigénie.

LA COUTURE: Esthétique Fondamentale.

Philosophy

(1909)

(a) *History of Philosophy*. Mediæval and Modern up to Kant. (WEBER.)

(b) *Ethics*. MCKENZIE.

(1910 and every alternate year)

(a) *Metaphysics*. MCKENZIE.

(b) STOUT: *Manual of Psychology*.

(1911 and every alternate year)

(a) *Ethics*. MCKENZIE.

(b) PLATO: *Republic*.

FOR FRENCH-SPEAKING STUDENTS.

(a) *Logique*. FONSEGRIVE.

(b) *Métaphysique*. FONSEGRIVE.

Latin

(a) *Authors*.

1909—CICERO: *De Amicitia*. (Reid, Pitt Press.)

Letters to Atticus I. (Pretor, Bell & Co.)

PLAUTUS: *Captivi* and *Trinummus*. (Morris, Ginn & Co.)

1910—HORACE: *Satires*, Book I., 1, 3, 4, 5, 6, 9, 10.

(Gow, Pitt Press.)

TACITUS: *Annals* I. and II. (Furneaux, Clarendon Press.)

1911—CICERO: *Cicero in his Letters*, I.—XL. (Tyrrell, Macmillan & Co.)

PLAUTUS: *Captivi* and *Trinummus*. (Morris, Ginn & Co.)

(b) *Sight Translation*.

Greek*(a) Authors.*

1909—DEMOSTHENES: Olynthiacs I.-III. (Glover, Pitt Press.)

HOMER: Odyssey, Books XXII.-XXIV. (Merry, Clarendon Press.)

EPISTLE TO THE ROMANS.

HERODOTUS: Book VI. (Strachan, Macmillan & Co.)

1910—THUCYDIDES: Book II. (Marchant, Macmillan & Co.)

ARISTOPHANES: CLOUDS. (Merry, Clarendon Press.)

EPISTLE TO THE HEBREWS. (Cambridge Greek Testament.)

AESCHYLUS: Prometheus Vincetus. (Mather, Allyn & Bacon.)

1911—DEMOSTHENES: Olynthiacs I.-III. (Glover, Pitt Press.)

HOMER: Odyssey, Books XXII.-XXIV. (Merry, Clarendon Press.)

GOSPEL OF MARK. (Cambridge Greek Testament.)

HERODOTUS: Book VI. (Strachan, Macmillan & Co.)

*(b) Sight Translation.***Physics**

This subject will be treated as outlined in the schedule on page 102.

French (or English)

(a) *Grammar.* Writing French from dictation. Translation from English into French. Translation of unspecified passages from modern French prose.

(b) An examination on prescribed texts:

1909 { GEORGE SAND: *La Petite Fadette*.
 { VICTOR HUGO: *Hernani*; *Quatre-vingt-treize*.

1910—RACINE: *Phèdre*.

MOLIÈRE: *Les Précieuses Ridicules*.

Le Médecin Malgré lui.

La Société Française au Dix-Septième Siècle, by
 Prof. T. F. Crane.

FOR FRENCH-SPEAKING STUDENTS.

(a) Les élèves de langue français écriront une dictée anglaise, un thème anglais, et une version anglaise.

(b) WORDSWORTH: *Excursion*, Book I.

IRVING: *Sketch Book*, *Six Essays*. (Ginn & Co.)

German

(a) *Grammar*. Writing German from dictation. Translation of unspecified passages from modern German prose. Translation from English into German.

(b) An examination on prescribed texts.

(1909 and every alternate year)

1909—SCHILLER: *Wilhelm Tell*. (Holt & Co.)

GOETHE: *Hermann and Dorothea*.

Schiller and Goethe Correspondence. (Ginn & Co.)

(1910 and every alternate year)

GOETHE: *Egmont*.

LESSING: *Emilia Galotti*.

Life of Lessing, by Rolleston.

Hebrew

Hebrew Grammar—DAVIDSON, to end of regular verbs; or
HARPER.

Scripture

(1909 and every alternate year.)

- (a) Joel, Amos, Hosea and Micah. (Cambridge Bible.)
 - (b) Luke's Gospel. (Cambridge Bible); together with:
St. Paul, the Traveller and the Roman Citizen.—RAM-
SAY. (Hodder & Stoughton.)
- (Two papers, one on Old Testament, one on New Testament.)

(1910 and every alternate year)

- (a) Job. (Cambridge Bible.)
 - (b) Timothy, Titus and Philippians. (Cambridge Bible.)
- (Two papers, one on Old Testament, one on New Testament.)
-

Mathematics

MURRAY: Differential and Integral Calculus. See page 91.

GENERAL COURSE—FOURTH YEAR

NOTE 1.—All English-speaking collegiate students for this examination shall take the following fixed subjects: English, Philosophy, Latin or Greek, Science, and any one of the following options: Greek or Latin (the one not already taken), French, German, Hebrew, Political Economy, Scripture.

NOTE 2.—French-speaking students will substitute French for English in the fixed subjects, and English for French in the optional subjects.

NOTE 3.—Non-collegiate students shall take the following fixed subjects: English, Philosophy, Latin or Greek, and any two of the following options: Greek or Latin (the one not already taken), French, German, Hebrew, Political Economy, Scripture, Science.

English (or French)

(1909 and every alternate year.)

- (a) ALEXANDER POPE: *Windsor Forest*; *An Essay on Criticism*.

WORDSWORTH: *Ruth*; *Hart-Leap Well*; *The Affliction of Margaret*; *The Leech Gatherer*; *The Brothers*; *Influence of Natural Objects*; *Lines Composed a Few Miles Above Tintern Abbey*; *French Revolution*; *Nutting*.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination

Life of Alexander Pope, by LESLIE STEPHEN.

Life of Wordsworth, by F. W. H. MYERS.

- (b) TENNYSON: *Enone*; *Ulysses*; *Lucretius*; *Becket*.

GEORGE ELIOT: *Adam Bede*.

DE QUINCEY: *The English Mail Coach*.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Life of Tennyson, by H. J. JENNINGS.

Life of George Eliot, by LESLIE STEPHEN.

Life of De Quincey, by Prof. DAVID MASSON.

(1910 and every alternate year)

- (a) CHAUCER: Prologue to the Canterbury Tales.
SHAKESPEARE: Sonnets, Nos. 18-155, inclusive.
The Prose of Milton.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Chaucer, by A. W. POLLARD.

Milton, by MARK PATTISON.

Introduction to Shakespeare, by EDWARD DOWDEN. (Chas. Scribner's Sons, 1896.)

- (b) The Ballads contained in "A Ballad Book," edited by K. L. Bates.
Spenser's "Faerie Queene," Book 1., Cantos I. and II.
Milton's Sonnets.

Collateral Reading—To be read concurrently with the above. The content will enter into the examination.

Life of Spenser, by DEAN CHURCH.

FOR FRENCH-SPEAKING STUDENTS.

(1909 and every alternate year.)

MOLIÈRE: L'Avare.

CORNEILLE: Les Horaces.

RACINE: Les Plaideurs.

VEREST: Littérature.

(1910 and every alternate year)

BOILEAU: Satires.

RACINE: Iphigénie.

LA COUTURE: Esthétique Fondamentale.

Philosophy

(1909)

- (a) *History of Philosophy*. Kant and after. (WEBER.)
- (b) *Ethics*. MCKENZIE.

(1910 and every alternate year)

- (a) *Metaphysics*: MCKENZIE.
- (b) STOUT: *Manual of Psychology*.

(1911 and every alternate year)

- (a) *Ethics*: MCKENZIE.
- (b) PLATO: *Republic*.

FOR FRENCH STUDENTS.

- (a) *Logique*. FONSEGRIVE.
- (b) *Métaphysique*. FONSEGRIVE.

Latin

- (a) *Authors*.

1909—CICERO: *De Amicitia*. (Reid, Pitt Press.)
 Letters to Atticus I. (Pretor, Bell & Co.)

 PLAUTUS: *Captivi and Trinummus*. (Morris, Ginn & Co.)

1910—HORACE: *Satires, Book I*, 1, 3, 4, 5, 6, 9, 10.
 (Gow, Pitt Press.)

 TACITUS: *Annals I. and II*. (Furneaux, Clarendon Press.)

1911—CICERO: *Cicero in his Letters, I.-XL*. (Tyrrell, Macmillan & Co.)

 PLAUTUS: *Captivi and Trinummus*. (Morris, Ginn & Co.)

- (b) *Sight Translation*.

Greek**(a) Authors.**

1909—DEMOSTHENES: Olynthiacs, I.-III. (Glover, Pitt Press.)

HOMER: Odyssey, Books XXII.-XXIV. (Merry, Clarendon Press.)

EPISTLE TO THE ROMANS.

HERODOTUS: Book VI. (Strachan, Macmillan & Co.)

1910—THUCIDYDES: Book II. (Marchant, Macmillan & Co.)

ARISTOPHANES: Clouds. (Merry, Clarendon Press.)

EPISTLE TO THE HEBREWS. (Cambridge Greek Testament.)

AESCHYLUS: Prometheus Vincit. (Allyn & Boston.)

1911—DEMOSTHENES: Olynthiacs, I.-III. (Glover, Pitt Press.)

HOMER: Odyssey, Books XXII.-XXIV. (Merry, Clarendon Press.)

GOSPEL OF MARK. (Cambridge Greek Testament.)

HERODOTUS: Book IV. (Strachan, Macmillan & Co.)

(b) Sight Translation.

Natural Science

Any two of the following:

(a) *Geology*. See page 97.

(b) *Astronomy*. See page 92.

(c) *Physiology*. See page 105.

French

- (a) *Grammar*. Writing French from dictation. Translation from English into French. Translation of unspecified passages from modern French prose.

An examination on prescribed texts :

1909—GEORGE SAND: *La Petite Fadette*.

VICTOR HUGO: *Hernani*; *Quatre-vingt-treize*.

1910—RACINE: *Phèdre*.

MOLIÈRE: *Les Précieuses Ridicules*.

Le Médecin Malgré lui.

La Société Française au Dix-Septième Siècle.
by Prof. T. F. Crane.

German

- (a) *Grammar*. Writing German from dictation. Translation of unspecified passages from modern German prose. Translation from English into German.

An examination on prescribed texts :

(1909 and every alternate year)

SCHILLER: *Wilhelm Tell*.

GOETHE: *Hermann and Dorothea*.

Schiller and Goethe Correspondence. (Ginn & Co.)

(1910 and every alternate year)

LESSING: *Emilia Galotti*.

GOETHE: *Egmont*.

Life of Lessing, by Rolleston.

Hebrew

Hebrew Grammar—DAVIDSON completed, or,

DAVIDSON'S Grammar to the end of regular verbs (For students beginning Hebrew.)

Or HARPER.

Political Economy

Political Economy—MILL (Laughlin).

English Constitution—BAGEHOT.

FOR FRENCH-SPEAKING STUDENTS.

Economie Politique—HERVE-BAZIN.

Constitution Britannique—Conférences du Juge Dubuc.

Scripture

(1909 and every alternate year.)

(a) Joel, Amos, Hosea and Micah. (Cambridge Bible.)

(b) Luke's Gospel. (Cambridge Bible); together with:
St. Paul, the Traveller and the Roman Citizen—RAM-
SAY. (Hodder & Stoughton.)

(Two papers, one on Old Testament, one on New Testament.)

(1910 and every alternate year)

(a) Job. (Cambridge Bible.)

(b) Timothy, Titus and Philippians. (Cambridge Bible.)

(Two papers, one on Old Testament, one on New Testament.)

B.—COURSE IN CLASSICS

Third Year

N.B.—The content of the collateral reading will enter into the examination.

(1) *Greek History.* 500 B.C. to 431 B.C.

(a) HOLM: History of Greece, Vol. II., cc. 1-21.

(b) HERODOTUS: VII.-IX.

THUCYDIDES: I.

(2) *Roman History.* 146 B.C. to 50 B.C.

(a) HOW AND LEIGH: History of Rome.

PELIAM: Outlines of Roman History, Book III.,
c. 3, Book IV.

(b) CICERO: Select Letters, Watson, Parts 1, 2.

SALLUST: Catiline.

(3) *Epic Poetry.*

HOMER: Iliad, Books VI., IX., XVIII., XXII.,
XXIV.

Odyssey, Books VII.-XII.

VERGIL: Aeneid, Books I., IV.-VIII.

Collateral Reading—

JEBB: Introduction to Homer.

SELLAR: Roman Poets of the Augustan Age—
Vergil, cc. 8, 9, 10, 11.

(4) *Latin Prose.*

(5) *Greek Prose.*

(6) *Latin and Greek Sight Translation.*

Division A

(1910 and every alternate year)

(7) *Greek Tragedy.*

AESCHYLUS: Prometheus Vincit.

SOPHOCLES: Oedipus Tyrannus, Antigone, Philoctetes.

Collateral Reading—

BARNETT: Greek Drama, cc. 1, 2, 3 (Temple Primers).

MOULTON: Ancient Classical Drama, cc. 1, 3.

JEBB: Classical Greek Poetry, cc. 6, 7.

(8) *Latin Lyric Poetry.*

HORACE: Odes.

CATULLUS: Selections (Simpson).

Collateral Reading—

SELLAR: Roman Poets of the Republic, c. 15.

Roman Poets of the Augustan Age,
Horace, cc. 1, 6.

SHOREY: Odes and Epodes of Horace; The Introduction. (Sanborn, Boston.)

(9) *Roman Antiquities.*

Division B

(1911 and every alternate year)

(7) *Greek and Roman Comedy.*

ARISTOPHANES: Birds, Clouds.

TERENCE: Andria.

PLAUTUS: Trinummus.

Collateral Reading—

MOULTON: Ancient Classical Drama, cc. 7, 8, 9, 11.

JEBB: Classical Greek Poetry, c. 7.

SELLAR: Roman Poets of the Republic, cc. 6, 7.

(8) *Roman Satire and Epigram.*

HORACE: Satires I., omitting 2 and 8.
Satires II., 1, 2, 5, 6.

JUVENAL: Satires 1, 3, 5, 7, 8, 10.

MARTIAL: Stephenson's Selections, Books I.-IV.

Collateral Reading—

SELLAR: Roman Poets of the Augustan Age,
Horace, cc., 1, 2.

DILL: Roman Society from Nero to Marcus
Aurelius, cc. 1, 2. (The Macmil-
lan Co.)

BOISSIER: The Poet Martial, from "Tacitus and
Other Roman Studies." (Con-
stable, London.)

(9) *Greek Antiquities.*

FOURTH YEAR

N.B.—The content of the collateral reading will enter into the examination.

(1) *Greek History*—431 B.C. to 338 B.C.

(a) HOLM: History of Greece, Vol. II., c. 22. to Vol. III., c. 19.

(b) THUCYDIDES: II., VI., VII.

DEMOSTHENES: Philippic I.
Olynthiacs.

ARISTOTLE: Constitution of Athens.

(2) *Roman History*—19 B.C. to 37 A.D.

(a) MOMMSEN: Book V., c. 9 to end.

SHUCKBURGH: Augustus.

(b) CICERO: Select Letters—Watson. Parts 3, 4, 5.
Philippic II.

CAESAR: Civil War, I., 1—29; III.

MONUMENTUM ANCYRANUM.

TACITUS: Annals, I., II.

(3) *Literary Criticism.*

ARISTOTLE: Poetics. (Butcher.)

HORACE: De Arte Poetica.

QUINTILIAN: Book X.

Collateral Reading—

BUTCHER: Aristotle's Theory of Poetry and Fine Art; The Essays.

(4) *Greek Philosophy.*

PLATO: Republic, I.—IV., X.
Phaedo.

Collateral Reading—

JOWETT: Introductions to Republic and Phaedo.

(5) *Roman Philosophy.*CICERO: *De Officiis*.LUCRETIUS: *De Rerum Natura*, I., III., V.*Collateral Reading—*MAYOR: *Ancient Philosophy*.(6) *Latin Prose.*(7) *Greek Prose.*(8) *Latin and Greek Sight Translation.***Division A**

(1910 and every alternate year)

(9) *Greek Tragedy.*ÆSCHYLUS: *Prometheus Vincit*.SOPHOCLES: *Oedipus Tyrannus*, *Antigone*,
Philoctetes.*Collateral Reading—*BARNETT: *Greek Drama*, cc. 1, 2, 3. (Temple
Primers.)MOULTON: *Ancient Classical Drama*, cc. 1, 3.JEBB: *Classical Greek Poetry*, cc. 6, 7.(10) *Latin Lyric Poetry.*HORACE: *Odes*.CATULLUS: *Selections*. (Simpson.)*Collateral Reading—*SELLAR: *Roman Poets of the Republic*, c. 15.*Roman Poets of the Augustan Age*,
Horace, cc. 1, 6.SHOREY: *Odes and Epodes of Horace*; The In-
troduction. (Sanborn, Boston).(11) *Roman Antiquities.*

Division B

(1911 and every alternate year)

(9) *Greek and Roman Comedy.*

ARISTOPHANES: Birds. Clouds.

TERENCE: Andria.

PLAUTUS: Trinummus.

Collateral Reading—

MOULTON: Ancient Classical Drama, cc. 7, 8, 9, 11.

JEBB: Classical Greek Poetry, c. 7.

SELLAR: Roman Poets of the Republic, cc. 6, 7.

(10) *Roman Satire and Epigram.*

HORACE: Satires, I., omitting 2 and 8.

Satires, II., 1, 2, 5, 6

JUVENAL: Satires, 1, 3, 5, 7, 8, 10.

MARTIAL: Stephenson's Selections, Books I.-IV.

Collateral Reading—

SELLAR: Roman Poets of the Augustan Age,
Horace, cc. 1, 2.

DILL: Roman Society from Nero to Marcus
Aurelius, cc. 1, 2. (The Macmillan Co.)

BOISSIER: The Poet Martial, from "Tacitus and
Other Roman Studies. (Constable,
London.)

(11) *Greek Antiquities.*

C.—COURSE IN MATHEMATICS

Students pursuing this course of study must satisfy the examiners in the following subjects of the Third and Fourth Years, respectively :—

Third Year

1. Higher Algebra and Theory of Equations. (See p. 91.)
2. Plane and Spherical Trigonometry. (See p. 92.)
3. Plane Analytical Geometry. (See p. 92.)
4. Infinitesimal Calculus. (See p. 92.)
5. Physics. Course I., Parts I. and II. (See p. 103.)
6. Physics. Special Course II. (See p. 104.)
7. Problems on 1, 2, 3, 4, 6.

Fourth Year

1. Differential Calculus. (See p. 92.)
2. Integral Calculus and Differential Equations. (See p. 92.)
3. Solid Analytical Geometry. (See p. 92.)
4. Analytical Statics. (See p. 92.)
5. Particle Dynamics. (See p. 97.)
6. Physics. Laboratory Course. (See p. 104.)
7. Astronomy. (See p. 92.)
8. Problems on 1, 2, 3, 4, 5, 7.

D.—COURSE IN MODERN LANGUAGES

Division A

(1909 and every alternate year.)

English

1. The Poetry of Pope and Gray.

ALEXANDER POPE :—

Windsor Forest.
An Essay on Criticism.
Eloisa to Abelard.
The Rape of the Lock.
Epistle to Dr. Arbuthnot.

THOMAS GRAY :—

Ode on a Distant Prospect of Eton College.
Hymn to Adversity.
Elegy Written in a Country Churchyard.
The Descent of Odin.
The Fatal Sisters.
Specimens of Gray's Prose, contained in a book
edited by W. L. Phelps and published by Ginn &
Co. (pp. 61-125).

Collateral Reading

(NOTE—*This is to be read concurrently with the above.
The content of it will enter into the examination.*)

Life of Alexander Pope, by LESLIE STEPHEN.

Essay on Pope in *My Study Windows*, by JAMES RUSSELL
LOWELL.

Pope in *The English Humorists of the 18th Century*, by
W. M. THACKERAY.

Life of Thomas Gray, by EDMUND GOSSE.

2. The Poetry of Wordsworth and Tennyson.

(NOTE.—*All the Wordsworth poems named below may be found in the Golden Treasury Series volume edited by M. Arnold. The whole makes about 85 pages of verse.*)

WILLIAM WORDSWORTH:—

We Are Seven, Lucy Gray, The Pet Lamb, Ruth, Hart-Leap Well, The Affliction of Margaret, The Leech-Gatherer, The Brothers.

My Heart Leaps Up, To the Daisy, Three Years She Grew, To the Cuckoo, She was a Phantom of Delight, To a Highland Girl, Stepping Westward, The Solitary Reaper.

Character of the Happy Warrior, Ode to Duty, Ode on Intimations of Immortality.

Sonnets: To Toussaint l'Ouverture, The World is too much with us, November, 1806; Inside of King's College Chapel, Cambridge; Most Sweet Is It, On the Departure of Sir Walter Scott for Naples, A Poet!, Composed on a May Morning, 1838; Death, The Everlasting Temple.

Influence of Natural Objects, Lines Composed a Few Miles Above Tintern Abbey, French Revolution (as it appeared to enthusiasts at its commencement), Nutting, To Mary Wordsworth.

ALFRED LORD TENNYSON:—

Mariana.

The Lady of Shalott, Sir Galahad, The Epic; and the following *Idylls*: Lancelot and Elaine, The Holy Grail, The Last Tournament, Guinevere, The Passing of Arthur.

In Memoriam.

Cænone, Ulysses, Lucretius.

St. Simeon Stylites.

Becket.

"You ask me, why, tho' ill at ease," "Love thou thy Land."

Collateral Reading

(*The Note given above under this heading in connection with Paper I, applies here.*)

Life of Wordsworth, by F. W. H. MYERS.

Wordsworth's Prefaces and Essays on Poetry, edited by A. J. GEORGE.

Matthew Arnold's Essay (Preface to *Selections* in Golden Treasury Series).

Life of Tennyson, by H. J. JENNINGS.

Tennyson, His Art and Relation to Modern Life, by STORFORD A. BROOKE

3. The Nineteenth Century Novel and Essay.

GEORGE ELIOT:—

Scenes of Clerical Life.

Adam Bede.

Felix Holt.

THOMAS DE QUINCEY:—

PROF. MASSON'S two volumes of *Selections*.

Collateral Reading

(*See Note under this heading, Paper I.*)

Life of George Eliot, by LESLIE STEPHEN.

Chapters VII.-XII. inclusive (150 pp.) in *The English Novel*, by SIDNEY LANIER.

Life of De Quincey, by PROF. DAVID MASSON.

4. History of Literature.

(a) History of Literature.

Beginnings of the English Romantic Movement,
by W. L. PHELPS.

History of the Literature of the Nineteenth Century,
by PROF. GEORGE SAINTSBURY.

(b) Illustrative History, Social and Political. Period:
the 18th and 19th centuries.

Horace Walpole (1717-1797) and His World
(selections from his Letters edited by L. B.
SEELEY).

A short History of Our Own Times, by JUSTIN
MC CARTHY (one-volume abridgment of his
larger work.)

French

5. Literary and Political History:—

(a) History of French Literature in the 19th Century.

PELLISSIER'S The Literary Movement in France
during the 19th Century.

(b) History of France. Period: The Revolution and
the 19th Century.

The French Revolution, by C. E. MALLET (Scrib-
ners.)

Revolution and Reaction in Modern France, by
G. L. DICKENSON (published by G. Allen).

Napoleon, in the Heroes of the Nations Series.
by W. O'CONNOR MORRIS (Putnam).

6. Authors.

ROUSSEAU:—

Le Contrat Social.

MADAME DE STAËL:—

De l'Allemagne (Didot edition).

VICTOR HUGO:—

Préface de Cromwell. (Scott, Foresman & Co.)

Hernani. (Scott, Foresman & Co.)

Quatre-vingt-treize. (Ginn & Co.)

Feuilles d'Automne.

BALZAC:—

Le Père Goriot. (Heath & Co.)

Séraphita.

Le chef d'Oeuvre Inconnu.

Le Médecin de Campagne.

Collateral Reading

(NOTE.—*This is to be read concurrently with the above. The content of it will enter into the examination.*)

Victor Hugo, by F. T. MARZIALS (Great Writers' Series).

Memoirs of Victor Hugo, by PAUL MEURICE.

Balzac, by E. E. SALTUS.

7. Composition, Translation at Sight, and Oral.

German

8. The Literary and Political History of Germany as follows:

(a) The History of German Literature from 1788 to 1900, based upon Francke, History of German Literature as Determined by Social Forces.

(b) The Political History of Germany from 1788 to 1900 based upon. A Short History of Germany. (Henderson.)

9. The life and writings of Goethe (1788-1832), Schiller (1788-1805), Heine, Hauptmann, with special reference to the following works:—

GOETHE:—

- Faust, Part I. (Calvin Thomas edition).
 Dichtung und Wahrheit (selections) (Holt & Co.).
 Tasso (D. C. Heath & Co.).
 Hermann and Dorothea (D. C. Heath & Co.)

SCHILLER:—

- Wallensteins Tod (Holt & Co.).
 Historische Skizzen, Vol. IV.: Egmont's Leben und Tod; Belagerung von Antwerpen (Clarendon Press).

HEINE:—

- Lyrics (D. C. Heath & Co.)
 Prosa (selections) (Clarendon Press).

HAUPTMANN:—

- Fuhrmann Henschell.

Collateral Reading

(NOTE.—*This is to be read concurrently with the above. The content of it will enter into the examination.*)

- Bismarck and His Time, by SIME.
 A History of German Literature, by ROBERTSON.
 Schiller, by NEVINSON.
 Schiller and Goethe Correspondence, edited by ROBERTSON (Ginn & Co.).
 Goethe, by LEWES.

10. Prose, Sight Translation, Oral.

Division B

(1910 and every alternate year)

English

1 Chaucer and the Popular Ballad.

CHAUCER:—

The Prologue to the Canterbury Tales.

Nonne Priestes Tale.

Prioresses' Tale.

Clerkes' Tale.

(Two volumes in the edition of Morris and Skeat.
Clarendon Press.)

The Ballads contained in "A Ballad Book," edited
by Katharine Lee Bates.

Collateral Reading

*(NOTE.—This is to be read concurrently with the above.
The content of it will enter into the examination.)*

CHAUCER, by A. W. Pollard.

Chapters I., VI., VIII., in T. R. LOUNSBURY'S *Studies in Chaucer*.

Article on The Ballad in the *Encyclopædia Britannica*.

The following ballads (for purposes of comparison) by
modern poets:—

LONGFELLOW'S *The Wreck of the Hesperus*, and *The Skeleton in Armor*.

D. G. ROSSETTI'S *Sister Helen*.

KIPLING'S *The Gift of the Sea*.

2. Spenser and Milton.

EDMUND SPENSER :—

- Astrophel.
- The Faerie Queene, Book I.
- An Hymne in Honor of Beautie.
- An Hymne of Heavenly Beautie.
- The Epithalamion.
- (Macmillan's one-volume edition of Spenser's poems is recommended.)

JOHN MILTON :—

- The Ode on the Morning of Christ's Nativity.
- The Sonnets.
- L'Allegro, and Il Penseroso.
- Paradise Lost, Books I.-III.
- Samson Agonistes.
- The Prose of Milton, edited by DR. RICHARD GAR-
NETT.

Collateral Reading

(The Note given above under this heading in connection with Paper I., applies here.)

Life of Spenser, by DEAN CHURCH.

Spenser, the Poet and Teacher, and Heroines of Spenser in
DOWDEN'S Transcripts and Studies.

Life of Milton, by MARK PATTISON.

Essay on Milton by EDWARD DOWDEN in Transcripts and
Studies.

3. SHAKESPEARE :—

- The Sonnets.
- As You Like It.
- Henry V.
- Antony and Cleopatra.
- Othello.
- Cymbeline.

Collateral Reading

(See Note under this heading, Paper I.)

A Life of William Shakespeare, by SIDNEY LEE.

Shakespeare, His Mind and Art, by EDWARD DOWDEN.

4. History of Literature.

(a) History of English Literature.

STOPFORD BROOKE'S Primer of English Literature
(to be read down to the period of Elizabeth).

Elizabethan Literature, by PROFESSOR 'GEORGE
SAINTSBURY.

(b) History, Social and Political.

The Age of Elizabeth, by M. CREIGHTON (Epochs
of Modern History Series, Longmans).

The Reformation in England, by G. G. PERRY
(Epochs of Church History Series, Longmans).

The First Two Stuarts and the Puritan Revolution, by S. R. GARDINER (Epochs of English
History, Longmans).

French

5. Literary and Political History.

(a) History of French Literature in the 17th Century.

SAINTSBURY'S Primer of French Literature, pub.
by Clarendon Press (to the 17th Century).

SAINTSBURY'S Short History of French Literature
(5th edition, Book 3, pp. 246-366. Clarendon
Press.)

Chapter I. of PELLISSIER'S The Literary Movement
in France during the 19th century (this chapter
is on Classicism).

- (b) History of France in the 17th Century. *To form an idea of the earlier portion of French History the student will be expected to read the following:*

Historical Primer of France, by CHARLOTTE M. YONGE.

DURUY'S History of France, abridged and translated by Mrs. Carey, pp. 377-479.

Richelieu, by GUSTAVE MASSON.

La Société Française au Dix-Septième Siècle, by PROF. T. F. CRANE.

6. Authors:

RACINE:—

Andromaque.

Phèdre.

MOLIÈRE:—

Tartuffe.

Les Précieuses Ridicules.

Le Médecin Malgré Lui.

Le Malade Imaginaire.

L'Ecole des Femmes.

BOSSUET:—

Oraisons Funèbres (in edition of Hachette et Cie, edited by C. Aubert.)

MADAME DE SÉVIGNÉ:—

Choix de Lettres (Didot edition).

Collateral Reading

(NOTE—This is to be read concurrently with the above. The content of it will enter into the examination.)

Article on Racine in the Encyclopædia Britannica.

Article on Molière in the Encyclopædia Britannica.

Essays on Fénelon, Bossuet, Massillon in Monday Chats, by
SAINTE-BEUVE (translation by Dr. Wm. Matthews).

Madame de Sévigné, by GASTON BOISSIER (in Great French
Writers Series).

Essay on Literary Influence of Academies, by MATTHEW
ARNOLD (in Essays in Criticism, 1st Series).

Madame de Maintenon, by J. COTTER MORRISON.

7. Composition, Translation at Sight, and Oral.

German

8. The Literary and Political History of Germany as follows:

(a) The History of German Literature from the begin-
ning to 1788, based upon Francke's History of
German Literature, etc.

(b) The Political History of Germany from the begin-
ning to 1788, based upon, A Short History of
Germany (Henderson).

9. The life and writings of Klopstock, Lessing and Goethe
(to 1788) with special reference to the following works:

(a) KLOPSTOCK:—

Messias Cantos I, II, III.

Oden: Die Stunden der Weihe, Der Zürchersee,
Die Königin Luise, Die beiden Musen, Der
Rheinwein, Der Eislauf, Der Jüngling, Schlacht-
lied, Hermann, Mein Vaterland. (Cotta'sche
Buchhandlung.)

(b) LESSING:—

Emilia Galotti. (Heath & Co.)

Hamburgische Dramaturgie (selections). (Cös-
chen Verh.)

Laokoon (selections). (Oxford Univ. Press.)

Nathan der Weise. (Amer. Book Co.)

(c) GOETHE:—

Leiden des Jungen Werthers.

Götz von Berlichingen.

Egmont.

Lyrics. (Ed. Harris, Heath & Co.)

Collateral Reading

(NOTE—*This is to be read concurrently with the above. The content of it will enter into the examination.*)

Life of Frederick the Great, by A. L. SMITH.

A History of German Literature, by ROBERTSON.

Lessing, by ROLLESTON.

Goethe, by LEWES.

Essays on German Literature, by BOYESEN.

10. Prose, Sight Translation, and Oral.

A student in order to pass in either Division A or B must obtain 40 per cent. of the aggregate marks given for the Division. Failing to obtain this percentage the student shall be required to again present himself for examination on all the subjects of the Division, at a subsequent regular examination.

A student obtaining an average of 40 per cent. on the whole Division, but failing to obtain 40 per cent. of the marks given for any one of the three languages, shall be required to write on all the papers of that language again; but a student obtaining more than 40 per cent. on the aggregate of the papers of any language and not obtaining 34 per cent. of the marks on any paper shall be required to write on such paper again.

The papers on Composition, etc., in both French and German, shall receive 60 marks for Grammar and Composition, 20 marks for conversation, and 20 marks for Unspecified Authors.

In each Division of this course three essays shall be written by each candidate; one on a subject connected with the English Course, one on a subject connected with the French Course, and one on a subject connected with the German Course. These essays are to be written in the University Building, in the presence of one Examiner or more, and given to the Registrar. No student shall be allowed to write on the Examination unless the essays have been passed by the Examiners as "satisfactory."

Essays for 1909-1910

English—

Subject: "Shakespeare's Heroines."

Date: Tuesday, Nov. 30th, at 2 p.m.

French—

Subject: "Classicism in the Seventeenth Century as represented by the Tragedies of Racine."

Date: Jan 18th, at 2 p.m.

German—

Subject: "Lessing's Theories of Art and the Drama."

Date: Tuesday, March 8th, at 2 p.m.

E.—COURSE IN PHILOSOPHY—English

Third Year

1. *History of Philosophy*—Ancient and Mediæval. (WEBER, Parts I. and II.).
2. *Metaphysics*—LOCKE and the transition through Berkeley to Hume.
 LOCKE: Essay, Book II.
 BERKELEY: Selections, ed. Fraser.
 HUME: Selections, ed. Aikins.

(1909)

3. *Ethics*—PLATO: Republic.
 ARISTOTLE: Ethics.
 McKENZIE: Ethics.
4. *Political Science*—MILL: Political Economy.
 WALKER: Political Economy.
 BAGEHOT: English Constitution.

(1910 and every alternate year)

3. *Logic*—CREIGHTON: Parts II. and III.
 MILL: Logic.
4. *Psychology*—STOUT: Manual of Psychology.
5. *Metaphysics*—JANET: Final Causes.
 McKENZIE: Outlines of Metaphysics.
6. *Political Science*—BOSANQUET: Philosophical Theory of the State.

(1911 and every alternate year)

3. *Ethics*—PLATO: Republic.
 ARISTOTLE: Ethics.
 McKENZIE: Ethics.

4. *Political Science*—MILL: Political Economy.
WALKER: Political Economy.
BAGEHOT: English Constitution.
 5. *Psychology*—HEGEL: Phenomenology of Spirit (Royce's Translation).
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Fourth Year

1. *History of Modern Philosophy*—WEBER, Part III.
2. *Metaphysics*—KANT: Critique of Pure Reason.
3. *Philosophy of Religion*—JOHN CAIRD: Introduction to the Philosophy of Religion.
(1909)
4. *Ethics*—PLATO: Republic.
ARISTOTLE: Ethics.
MCKENZIE: Ethics.
5. *Political Science*—MILL: Political Economy.
WALKER: Political Economy.
BAGEHOT: English Constitution.
(1910 and every alternate year)
4. *Logic*—CREIGHTON: Parts II and III.
MILL: Logic.
5. *Psychology*—STOUT: Manual of Psychology.
HEGEL: Phenomenology of Spirit (Royce's Translation.)
6. *Metaphysics*—JANET: Final Causes.
MCKENZIE: Outlines of Metaphysics.
(1911 and every alternate year)
1. *Ethics*—PLATO: Republic.
ARISTOTLE: Ethics.
MCKENZIE: Ethics.
5. *Political Science*—BOSANQUET: Philosophical Theory of the State.
MILL: Political Economy.
WALKER: Political Economy.
BAGEHOT: English Constitution.

COURSE IN PHILOSOPHY—LATIN

(1909 and every alternate year)

1. *Philosophia Moralis*—RUSSO.
 ARISTOTE: Morale à Nicomaque,
 Livre, VIII.
 GRATRY: Les Sources de la Régéné-
 ération Sociale.
2. *Histoire de la Philosophie*—VALLET: Troisième Partie.
3. *Économie Politique*—HERVÉ-BAZIN: Traité d'Économie
 Politique.
 LE PLAY: Économie Sociale.
 CATHREIN: Le Socialisme.

(1910 and every alternate year)

1. *Logica*—RUSSO.
2. *Metaphysica*—RUSSO.
 MALLEHRANCHE: Réserche de la Vérité.
 Livre II.
 FENELON: Traité de l'existence de Dieu.
 PASCAL: Pensées.
3. *Histoire de la Philosophie*—VALLET: Deuxieme Partie.

Fourth Year

4. *Esthetique*—VEREST: Manuel de Littérature.
 FELIX: Conférences sur la Famille.
 RENÉ: Bazin, Telle qui meurt.
 RACINE: Iphigénie.
 MOLIERE: Le Misanthrope.

Third Year

- Physique*—BRANLY: Traité Élémentaire de Physique.
 GAGE: Principles of Physics.

F.—COURSE IN NATURAL AND PHYSICAL SCIENCE

Third Year

1. *Chemistry*—Inorganic. See page 98.
 2. *Practical Inorganic Chemistry*. See page 100.
 3. *Physics*—Theoretical and Practical. Courses II. and III. page 104. (Two papers.)
 4. *Mineralogy*—Crystallography and Mineralogy.
 5. *Botany*—Course I. and Practical Work. See page 94.
 6. *Zoology*—See page 107.
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Fourth Year

1. *Chemistry*—(a) Inorganic.
(b) Organic.
(c) Practical Chemistry.
2. *Physics*—Experimental Course IV. See page 104.
3. *Botany*—Course II. page 95, including Practical Work.
4. Any two of the following:
 - (a) *Geology*—Including Practical Work. See page 97.
 - (b) *Astronomy*—See page 92.
 - (c) *Physiology*—See page 105.

No student shall be allowed to take any Third or Fourth Year examination in the Special Course of Natural Science who does not present from the Science Faculty of the University, or from an affiliated College of the University, where such work is done in the College, a certificate of having attended 75 per cent. of the lectures delivered in each subject of such course.

DEGREE OF MASTER OF ARTS

The following are the requirements for the M.A. degree:

1. The candidate must be:

(a) A Bachelor of Arts of the University of Manitoba of at least three years' standing, or

(b) An *Ad eundem* Bachelor of Arts of the University of Manitoba of at least three years' standing in his own University.

2. He must prepare, and submit to the Board of Studies, a thesis on some literary or scientific subject under the following rules:

(a) The subject of the thesis must first be submitted to the Board of Studies for approval.

(b) No paper previously read before any association, or which may have been published in any way, shall be accepted as a thesis.

(c) General topics, involving no special research, will not be accepted.

(d) The thesis must be accompanied by foot-notes containing definite references to all authorities quoted or used.

(e) At least four months must elapse between the time of approval of the subject and the handing in of the thesis.

(f) The thesis, if accepted, becomes the property of the University.

(g) At least six type-written or printed copies of the thesis must be forwarded to the Registrar, together with the Degree fee (twenty dollars), not later than the 1st of March of the year in which the Degree may be granted.

SCHEDULES OF COURSES IN MATHEMATICS AND SCIENCE

DEPARTMENT OF MATHEMATICS

R. R. COCHRANE, B.A.		<i>Professor</i>
N. B. McLEAN, M.A.		<i>Lecturer</i>

The instruction in the department of mathematics consists of a series of courses of lectures and class recitations conducted for the following classes of students:—

(1) Students of the Second Year in Arts who select Mathematics as one of their optional subjects;

(2) Students of the Third and Fourth Years in Arts who desire to proceed to a degree by pursuing the prescribed course in Mathematics.

(3) Students pursuing courses in Engineering. The substance of the lecture courses is embodied in the following schedule:—

First Year (Engineering)

Geometry—Plane Geometry and Mensuration, Baker's Theoretical Geometry and Chambers' Practical Mathematics. One hour per week.

Algebra—Hall and Knight's Elementary Algebra, Chapters 30, 31, 36, 37, 38 39, 43, 44. Two hours per week.

Trigonometry—Hall and Knight's Trigonometry, Chapters 1-17, inclusive. Two hours per week.

Second Year (Engineering)

Geometry—Solid Geometry and Mensuration, Hall and Stevens' Geometry for Schools, Part VI, and Chambers' Practical Mathematics. One hour per week.

Trigonometry—Todhunter and Leatham's Spherical Trigonometry, Chapters 1-7, inclusive. Two hours per week during Second Term.

Analytical Geometry—Baker's Analytical Geometry. Two hours per week.

Calculus—Murray's First Course in the Infinitesimal Calculus (selected course). Three hours per week (taken along with Third Year Arts).

Second Year (Arts)

Geometry—Euclid, B. vi. and B. xi., propositions 1-21, inclusive—Hall and Stevens' Elements of Euclid (latest edition). One hour per week.

Analytical Geometry—Baker's Analytical Geometry, Chapters 1-5, inclusive. Two hours per week.

Algebra—Hall and Knight's Higher Algebra, cc. 1, 2, 5, 6, 8, 9, 10, 12, 14, 17, 18.

Trigonometry—Hall and Knight's Trigonometry, Chapters 18-23, inclusive. One hour per week.

Third Year (Arts)

Algebra—Hall and Knight's Higher Algebra, Chapters 19-26, inclusive, Chapter 29, Chapters 33-35, inclusive. Two hours per week.

Plane Trigonometry—Todhunter and Hogg's Trigonometry, Chapters 19-24, inclusive. Two hours per week during First Term.

Spherical Trigonometry—Todhunter and Leatham's Spherical Trigonometry, Chapters 1-7, inclusive. Two hours per week during Second Term.

Plane Analytical Geometry—Baker's Analytical Geometry, Chapters 6-9, inclusive. Two hours per week.

Calculus—Murray. Differential and Integral Calculus, Chapters 1-5, inclusive, 7, 11, 15, 16, 18-20, inclusive. Three hours per week.

Fourth Year (Arts)

Geometry—Charles Smith's Solid Analytical Geometry, Chapters 1-5, inclusive. Three hours per week during First Term.

Differential Calculus—Murray. Differential and Integral Calculus, Chapters 6, 8, 9, 12, 13, 14, 17. Three hours per week.

Integral Calculus and Differential Equations—Murray. Differential and Integral Calculus, Chapters 21-22, inclusive. Three hours per week.

Statics—Lectures based on Todhunter's Analytical Statics, Chapters 1-10, inclusive, and selections from Chapters 11, 13, 14. Three hours per week.

Dynamics—Lectures based on Tait and Steele's Dynamics of a Particle. Chapters 1-5, inclusive, and selections from Chapters 6, 7, 9. Two hours per week during Second Term.

Astronomy—This course is intended for students of the Fourth Year in Arts who are pursuing the General Course, and the Special Course in Mathematics, and also for students of the Third Year in Engineering, and will give an account of the leading facts of Astronomy, and the methods by which

these facts are obtained. The lectures will be fully illustrated by means of models, diagrams, and lantern projections.

The Course will be covered in about Fifty Lectures. These will be given Tuesdays and Thursdays, 3 to 4 p.m.

Reference Books—Introduction to Astronomy, Moulton; General Astronomy, Young; Mathematical Astronomy, Barlow and Bryan; A Treatise on Astronomy, Godfrey.

DEPARTMENT OF BOTANY

A. H. REGINALD BULLER, B.Sc., London, Ph.D.,
Leip., D.Sc., Birmingham Professor

Course I.

This course is intended for the Arts and Engineering students of the First Year, and students of the Third Year in Arts who wish to graduate in Science, and also for Medical students of the First Year.

Lecture Days—Wednesdays and Fridays, at 3 p.m., throughout the session.

Laboratory—For students of the Third Year only—Thursdays, 10 to 12.

Classification of Objects—Comparison of living and non-living matter, and of plants and animals.

The Morphology of the Seed; germination; the external morphology of the seedling; the physiology of germination; the general nature of the reserve food-stuffs; the relations of the seedling with external conditions and natural forces; the theory of irritability; growth to exhaustion, and the general conditions of active life and self-nutrition.

The general morphology of the Plant Body, and the principal modifications in form and distribution of the vegetable members, Root, Shoot and Leaf.

Protoplasm as the physical basis of life; the Cell, and its principal modifications for special purposes; development and distribution of the Tissues considered especially from a physiological standpoint.

The Leaf as a bio-anatomical study; epidermis, vascular bundles, ground-tissue, intercellular spaces.

The internal morphology of the Stem in its chief modifications; the results of cambial activity; the secondary protective tissues, Cork and Bark, The Root.

The Bud; the principal characteristics of increase in length in shoot and root.

The phenomena of climbing, and illustrations of special powers of movement.

The elementary facts in the Nutrition of the plant, including the nature and sources of the raw material of food, and the constitution of the soil; absorption and the transpiration current; the nature and functions of chlorophyll; the broad principles of metabolism, and the distribution, storage, and utilization of its products. Respiration.

Nutrition without chlorophyll, and special fermentative changes, illustrated by Yeast, Bacteria and Molds. Degrees of Parasitism in Flowering Plants. Insectivorous Plants.

Reproduction, asexual and sexual, further illustrated by Spirogyra, Vaucheria, Fucus and Agaricus. The primary divisions of the Vegetable Kingdom, viz.: Thallophyta, Bryophyta (illustrated by a moss plant), Pteridophyta (a fern plant), and Phanerogamia (flowering plants).

The general character and structure of the reproductive organs in Phanerogamia; pollination, and its methods; fertilization; the development of the seed and the fruit; seed protection and dispersal; the natural spread of plants, and its limitations.

The Flower, and its chief modifications in structural plan. Examples of Natural Orders.

Course II.

A Course of about 40 Lectures to Arts students of the Fourth Year intending to graduate in Science.

Lecture Days—Monday, 2-3 p.m., and Wednesday, 11-12 a.m.

Laboratory—Tuesday, 10 a.m. to 1 p.m., and Friday, 11 a.m. to 1 p.m.

Life History and Classification of Plants.

The morphology and physiology of the chief groups of the Vegetable Kingdom and their most important subdivisions, viz.:

Thallophyta—Myxomycetes, Cyanophyceæ, Schizomycetes (Bacteria), Diatomaceæ, Conjugatæ, Chlorophyceæ, Phæophyceæ, Rhodophyceæ, Characeæ, Hyphomycetes.

Bryophyta—Hepaticæ, Musci.

Pteridophyta—Filices, Hydropterideæ, Equisetaceæ, Lycopodiaceæ, Selaginellaceæ.

Phanerogamia (Spermophyta)—Gymnospermæ, Angiospermæ.

Physiology—Students are expected to read up the general physiology of plants from text-books and special papers. The laboratory work will illustrate the processes of absorption of food materials, transpiration, carbon assimilation, respiration, growth, and movement. Practice will be given in the preparation of pure cultures of bacteria, yeast, moulds and other fungi.

Enzymes will be extracted and their action studied.

Field Work—At the beginning of the session there will be several excursions to the prairie, woods, and river side for the purpose of studying the algæ, fungi, and flowering plants in relation to their environment. Students are recommended to acquaint themselves with the Canadian orders of flowering plants during the summer vacation.

The Laboratory—The Botanical Department includes the lecture theatre, professor's room, and the laboratory. The latter has one room devoted to plant physiology, one to morphology, and one to museum purposes. There is also a small greenhouse and a dark room for photographing.

Research Work—The laboratory will be opened and encouragement given to any one desiring to carry on research on some Botanical problem.

DEPARTMENT OF GEOLOGY

A. H. REGINALD BULLER, B.Sc., London, Ph.D.,
 Leip., D.Sc., Birmingham *Professor*

General Course

For Arts students of the Fourth Year taking the General Course, or the Course in Natural and Physical Science, and also for students of the Third Year of the Engineering Course.

Lecture Days—Tuesday 2-3 p.m., and Thursday 2-3 p.m. throughout the session.

The Course will include the main outlines of Physical and Historical Geology, and will be illustrated as fully as possible with fossils and rock specimens.

Laboratory—For students in Natural and Physical Science and Engineering, Third Year. Thursday, 3-5 p.m.

Methods in mapping. Study of rock specimens and fossils

Text-book recommended: Norton's Elements of Geology.

DEPARTMENT OF CHEMISTRY

MATTHEW A. PARKER, B.Sc., F.C.S. *Professor*
 *Assistant*
 W. L. MANN *Student Demonstrator*

Inorganic Chemistry - - - First Course
Lectures—Monday and Wednesday, 4-5 p.m.
Practical Work, see under Chemical Laboratory

This course is attended by First Year Medical Students, First Year Engineering Students, Second Year Arts Students (Chemistry option), and by Third Year Arts Students in Natural Science.

The course consists of about fifty lectures, in addition to the practical work.

The following subjects are treated:—

Physical and chemical change; causes and conditions of chemical change; simple and compound substances; indestructibility of matter; laws of chemical combination; the atomic theory; atoms and molecules; Avogadro's hypothesis; equivalents, atomic, and molecular weights; valency; symbols; formulæ and equations; calculation of volumes and weights; acids, bases, and salts; electrolysis; solution; diffusion; dissociation; spectrum analysis; the periodic law; alloys.

The preparation and properties of the following elements and their more important compounds:

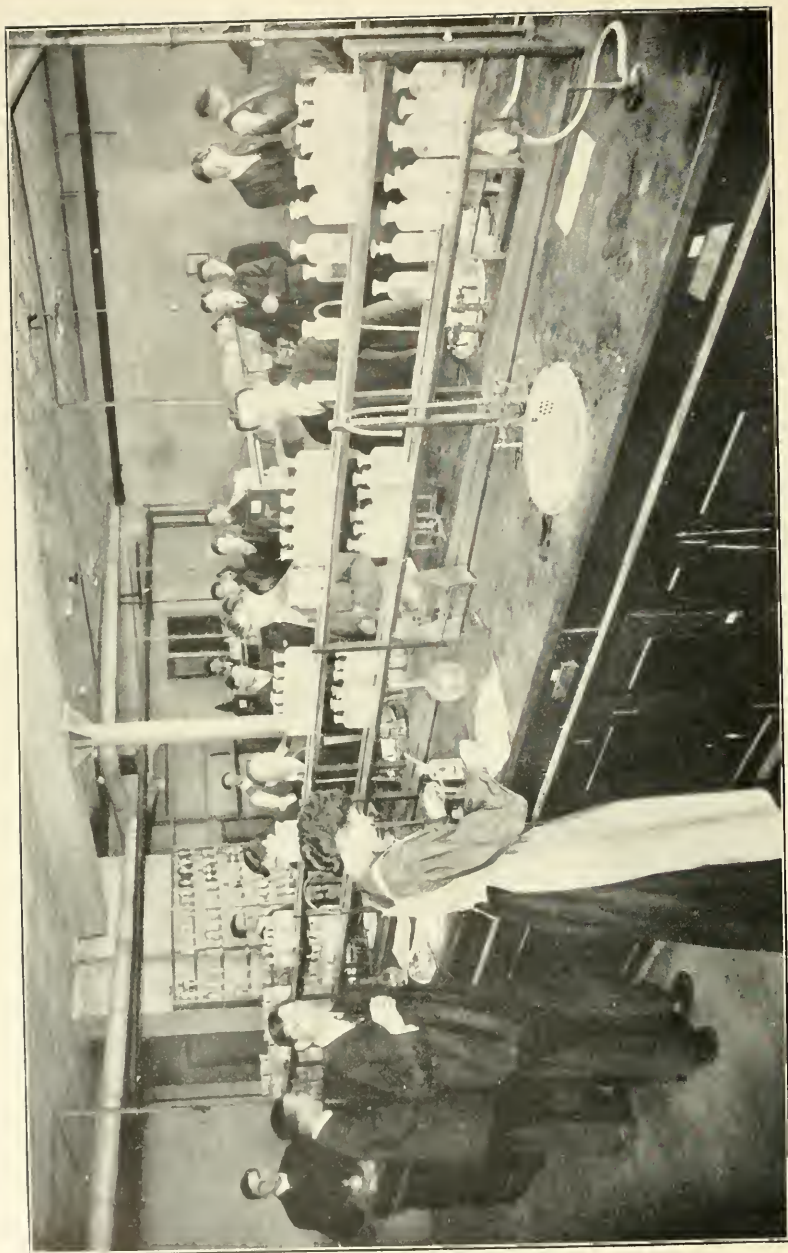
Hydrogen; sodium, potassium; magnesium; calcium, strontium, barium; boron, aluminium; carbon, silicon, tin, lead; nitrogen, phosphorus, arsenic, antimony, bismuth; oxygen, sulphur; fluorine, chlorine, bromine, iodine; chromium, manganese; iron, cobalt, nickel; zinc, cadmium, mercury; copper, silver, gold; platinum.

A Tutorial Class (attendance on which is voluntary) is held in connection with this course. The hour of meeting is arranged to suit the convenience of students.

Text-book recommended: General Chemistry for Colleges. Smith (The Century Co.)

For students intending to enter the Special Course in Natural Science, Smith's General Inorganic Chemistry (Century Co.), or Holleman's Inorganic Chemistry.





CHEMICAL LABORATORY

Inorganic Chemistry - - Second Course
Tuesday, 2-3 p.m.

This short course of about twenty lectures is arranged for Science students of the third year. It will deal with some of the more general subjects which are barely touched on in the first course.

NOTE.—Students of the third year in the Natural Science course who have not attended the first course in Chemistry, or its equivalent, will be required to attend the lectures of the first course in addition to those of the second course.

Organic Chemistry - - Lecture Course
Monday and Wednesday, 3-4 p.m.

This course is attended by Medical students of the Second Year (before Christmas) and by Fourth Year Arts students in Natural Science.

The first part of the course—attended by Medical students—consists of about twenty lectures and deals chiefly with the constitution and chemistry of the chief classes of compounds belonging to the fatty series, viz., saturated and unsaturated hydrocarbons; halogen derivatives of the hydrocarbons; monohydric alcohols; ethers; aldehydes and ketones; monobasic acids and their substitution products; esters; amines; polyhydric alcohols and their oxidation products; carbohydrates; cyanogen compounds, etc.

In the second part of the course the following subjects are considered: Constitutional differences between fatty and aromatic compounds; constitution and chemistry of benzene and its homologues; halogen, nitro-, and amino- derivatives of the hydrocarbons; diazo-, and azo- compounds; sulphonic acids; phenols, quinone; alcohols, aldehydes and ketones; aromatic acids and their derivatives; triphenyl methane and its derivatives, naphthalene, anthracene and their derivatives; pyridine, quinoline, and their derivatives; alkaloids; terpenes; stereoisomerism, physical properties of carbon compounds, determination of molecular weights.

Text-books recommended: Reimsen's or Perkin and Kipping's Organic Chemistry.

For Medical Students: Organic Chemistry for Medical Students, by G. V. Bunge. Trans. by R. H. A. Plimmer. (Longmans, Green & Co.)

Chemical Laboratory

Students in Natural Science of the Third and Fourth Years are required to attend the Chemical laboratory from 9 to 11 on Mondays, Wednesdays and Fridays. The work comprises a series of experiments, illustrative of chemical theory, including practice in the fitting up of apparatus for the preparation of the common gases, etc.; the study of the qualitative methods of detecting and separating mineral substances; quantitative analysis, inorganic and organic; preparation of inorganic and organic substances.

A record of all laboratory work must be kept, and report books must be handed to the examiners in chemistry previous to the practical examination for the degree.

Arts students of the second year who take the Chemistry option are required to attend the chemical laboratory on Fridays from 3 to 5 p.m. The course consists of experiments on the preparation and properties of some common inorganic substances.

Medical students of the First Year are required to attend the chemical laboratory from 3 to 5 on Tuesdays and Fridays. The work includes exercises on the preparation and properties of some of the common gases, etc., and a course of qualitative analysis and simple quantitative work.

Engineering students of the First Year attend the chemical laboratory from 9 to 11 on Wednesdays and Fridays. This course includes preparation of several inorganic substances, and experiments introductory to qualitative and quantitative analysis.

Engineering students of the Second Year attend the chemical laboratory from 10 to 12 on Mondays and Wednesdays. The course includes inorganic qualitative analysis; estimation of carbon, sulphur, phosphorus, etc., in iron and steel; quantitative analysis of cements.

Special students may be enrolled for the purpose of carrying on such advanced work as the equipment permits of and special facilities will be given to those capable of carrying on research work.

Each student is supplied with such apparatus as may be required with the exception of platinum wire and foil, laboratory towel, etc., which he must provide for himself.

Science and Engineering students will use Henderson and Parker's "Introduction to Analytical Chemistry" (Blackie and Son).

A deposit of five dollars is paid to the Registrar at the beginning of each session and all breakages will be made good out of this. See page 113.

DEPARTMENT OF PHYSICS

FRANK ALLEN, M.A.. Ph.D. (Cornell).....*Professor*

General Course I.

Monday, Wednesday, Friday, 2—3 p.m.
for

Medical Students of the First Year.

Engineering Students of the Second Year.

Arts Students of the Second Year (Optional)

In this course the principles of Physics will be discussed with experimental illustrations in such a way that no Mathematics higher than Plane Trigonometry will be required.

Part I.

MECHANICS AND HYDROSTATICS.

Velocity, acceleration, Newton's Laws of Motion, composition and resolution of vectors, systems of units, force, gravitation, mass, weight, momentum, equilibrium, centre of gravity, simple harmonic motion, the pendulum, friction, motion of rotation, the gyroscope, energy, work, machines, conservation of energy, properties and constitution of matter.

Pressure at a point, transmission of pressure, density, barometer, Boyle's Law, pumps, syphon, surface tension, capillarity, osmosis, diffusion, kinetic theory of gases.



MINERALOGICAL LABORATORY



PHYSICAL LABORATORY

HEAT.

Theory of heat, production of heat, temperature, expansion, thermometry, calorimetry, specific heat, fusion, vaporization, regelation, hygrometry, Charles' Law, spheroidal state, critical state, liquefaction of gases, convection, conduction, radiation, radiometer, Laws of Thermodynamics, mechanical equivalent of heat, heat engines, theory of sun's heat, dissipation of heat, production of heat by radio-activity.

Part II.**MAGNETISM.**

Laws of magnetic force, lines of force, magnetic induction, molecular theory of magnetism, diamagnetism, paramagnetism, terrestrial magnetism.

ELECTRICITY.

Laws of electrostatics, characteristics of electric charges, induced charges, influence machines, electroscope, Leyden jar, condenser, electric current, batteries, electromotive force, potential, resistance, Ohm's Law, galvanometers, electrolysis, Joule's Law, Ampere's Laws, induced currents, thermo-electricity, electro-magnetism, telegraph, telephone, electric light, electrical machinery, alternating currents, transformer, induction coil, electric waves, radio-telegraphy, discharge of electricity through gases, cathode rays, Roentgen rays, radio-activity.

SOUND.

Production of sound, velocity, reflection, refraction, pitch, intensity, quality, musical scale, resonance, interference, beats, vibration of plates, rods, strings and air columns, musical instruments, perception of sound by the ear, consonance, dissonance.

LIGHT.

Theories of light, velocity, reflection, refraction, photometry, dispersion, the spectrum, spectroscopy, absorption of light, color, fluorescence, phosphorescence, opalescence, interference, diffraction, double refraction, polarization, optical instruments, the eye, color vision, color blindness, effect of magnetism on light.

Course II.

Monday, Wednesday and Friday, 11—12 a.m.

This course involves a more thorough and detailed study of Physics than Course I. Special attention is given to the derivation of formulæ and the solution of problems.

To be taken by Third Year students in Mathematics, Natural Science and Engineering.

Course III.

Laboratory Course in Mechanics, Heat and Sound.

The Theory and Methods of Physical Measurements. Students are to perform an extensive series of experiments, and the results of each experiment are to be presented in a suitable report. Whenever possible, graphical methods are to be used. It is highly desirable that students should have an elementary knowledge of Analytical Geometry and Calculus.

To be taken by Third Year students in Mathematics, Natural Science and Engineering. See Time Tables.

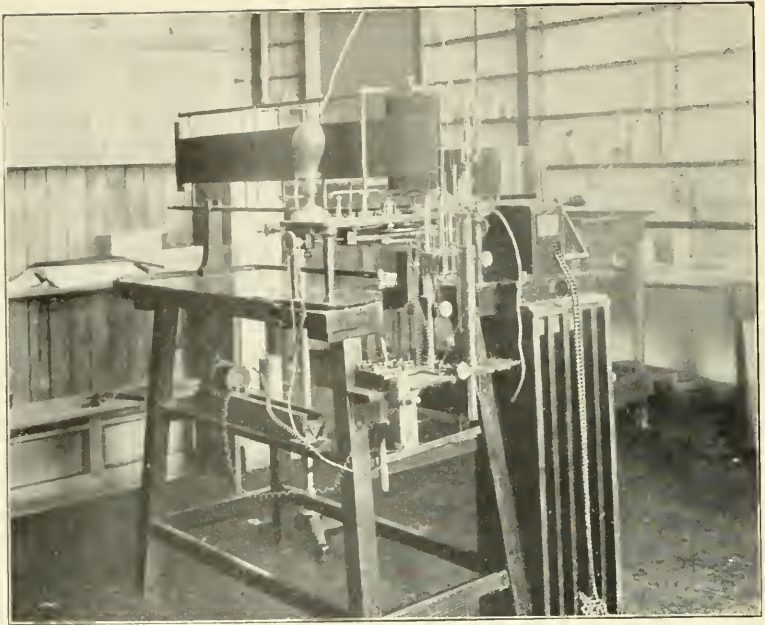
Course IV.

Laboratory Course in Electricity, Magnetism and Light,

Similar to Course III.

To be taken by Fourth Year students in Mathematics, Natural Science and Engineering. See Time Tables.

Books recommended—Gage's "Principles of Physics" (Goodspeed), Watson's "Text-book of Physics," Duff's "Text-book of Physics," "Laboratory Manual," D. C. Miller.



PHYSIOLOGICAL LABORATORY



PHYSIOLOGICAL LABORATORY

DEPARTMENT OF PHYSIOLOGY

SWALE VINCENT, M.D., London, D.Sc., Edin.,	
M.R.C.S., L.R.C.P.....	<i>Professor</i>
W. WEBSTER, M.D., C.M.	<i>Demonstrator</i>

The Physiological Department consists of a lecture theatre, a demonstration room for Experimental Physiology, a demonstration room for Physiological Histology, a preparation room for Physiological Chemistry, and students' laboratories for Chemical and Experimental Physiology.

Two courses of about fifty lectures each will be given during the session. The Elementary Course must be attended by Medical students in their Second Year, and the Advanced by Medical students in their Third Year.

Syllabus

Elementary—Monday and Wednesday, 2-3 p.m.

1. Structure and Physiology of the Cell, and of the simple tissues.
2. Muscle and Nerve.
3. Digestion and Absorption.
4. Circulation of Blood and Lymph.
5. Respiration.

Advanced—Tuesday and Friday, 2-3 p.m.

1. Metabolism, and the Function of the Ductless Glands.
2. Internal Secretion. Animal Heat.
3. Excretion (Kidneys and Skin).
4. The Nervous System, Structure and Functions. The Autonomic Fibres.
5. Special Senses.
6. Voice and Speech.
7. Reproduction.
8. General Chemistry of the Animal Body.

These lectures will be illustrated as fully as possible by diagrams, models and experiments.

Practical Physiology—Students of Medicine in their Second and Third Years are required to attend practical classes in Experimental Physiology before Christmas, in Physiological Chemistry after Christmas.

The Elementary Practical Class will meet during the first half of the session, on Monday and Wednesday, 4-5 p.m.; during the second half, 3-5 p.m.*

The Advanced Practical Class will meet during the session, Tuesday and Friday, 3-5 p.m.

Particular importance will be attached to punctuality and regularity in attendance at these practical classes.

Special demonstrations in Experimental Physiology will be announced during the first half of the session.

The Physiological Laboratory is open daily from 9 a.m. to 11 p.m. for the prosecution of original research. Application to be made to the Professor.

Text-Books—Text-book of Physiology edited by Schäfer, 2 vols. (Edin. & Lond., Young J. Pentland); An American Text-book of Physiology edited by Howell, 2 vols. (Phil., W. B. Saunders); Manual of Physiology, Stewart (Phil., W. B. Saunders); A Text-book of Physiology, by Howell, 1 vol. (Phil. & Lond., W. B. Saunders); Elements of Human Physiology, Starling (Lond., J. and A. Churchill).

For Practical Physiological Chemistry:—The Essentials of Chemical Physiology, Halliburton (Lond. Longmans, Green & Co.). For Experimental Physiology, Practical Physiology, Schäfer (Longmans).

* During the first half of the session Second Year Medical students will attend a course of lectures on Organic Chemistry from 3-4 on Monday and Wednesday as a preliminary to the Practical Physiological Chemistry in the second half.

Zoology and Comparative Anatomy

A course of about fifty lectures will be given in the Physiological Lecture Theatre during the session, Monday and Thursday, 3-4 p.m.

Syllabus

General Features of the Animal Kingdom.

Distinctive properties of living matter or protoplasm, as illustrated by the structure and mode of life of the *Proteus*—animalcule or *amœba*. Differences between Animals and Plants. The nature and structure of the Cell. Cell-division.

The more important facts in the structure and habits of *Paramœcium*, *Vorticella*, *Hydra*, *Lumbricus*, and *Astacus*.

The structure and life history of the Frog, the Pigeon and the Rabbit.

Elementary Physiology of these animals, and their microscopic anatomy. The organs of digestion and their use, the nature of blood, the structure of the heart, and the arrangement of the more important blood vessels. The nature of excretory organs. Mode of breathing. The kidneys and their uses.

Methods of reproduction in animals.

All students taking up Zoology, of whatever year and in whatever course, must attend the above lectures.

There will also be a practical class in Zoology for First Year students in Medicine and for Third Year students in Natural Science, Thursday, 4-6 p.m.

Text-books recommended: Text-Book of Zoology, Parker & Haswell, 2 vols. (Lond. & N.Y., Macmillan & Co.); The Frog, Marshall (Manchester, J. E. Cornish, and Lond., Smith, Elder & Co.); Hertwig's Manual of Zoology, trans. Kingsley (New York, Henry Holt & Co.)

For students commencing the subject, A Text-Book of Zoology, Wells and Davies. (Univ. Tutorial Press.)

For Third Year students in Science and Medical students of the First Year; Parker's Zootomy (Macmillan & Co.); Marshall, The Frog.

DEPARTMENT OF BACTERIOLOGY AND PATHOLOGY.

GORDON BELL, B.A., M.D., C.M., *Professor.*

This course for Third Year students in Medicine comprises a series of 25 didactic lectures and 50 hours' laboratory work devoted to the sliding of general pathological processes; examination of the blood; examination—clinical and microscopical—of the secretions and excretions of the body; culture methods; staining; identification of pathological bacteria; animal inoculation, etc.

A course for Fourth Year students of 25 lectures and 50 hours' laboratory work—devoted to special Pathology and Morbid Anatomy; preparation of microscopical specimens, etc.; demonstration of gross pathological specimens, etc.

Students are required to perform autopsies in rotation as opportunity presents.

Course in Histology

This course is for students of the Second Year in Medicine and consists of 25 didactic lectures and 50 hours' laboratory work.

Full instruction will be given in laboratory technique, and each student is required to prepare, stain and mount a full set of specimens for himself.

An excellent projective apparatus is provided for demonstrating specimens.

CURRICULUM IN ENGINEERING

ERNEST E. BRYDONE-JACK, B.A., C.E. (Renss.), M. Can. Soc.
 C.E., M. Am. Soc. C.E., M. Am. Soc. Prom. Eng., Ed.
 *Professor of Civil Engineering*
 EDWARD P. FETHERSTONHAUGH, B.Sc., A.M. Can. Soc. C.E.
 *Professor of Electrical Engineering*

Courses of Instruction and Degrees

Provision is made for two distinct courses in this department, namely, Civil Engineering and Electrical Engineering, each course covering a period of four years. At the completion of the respective courses the degree of Bachelor of Civil Engineering and the degree of Bachelor of Electrical Engineering will be conferred upon the student who has obtained credit for attendance at lectures and for laboratory, field and office work, and has passed the examinations required in the respective courses.

The degrees of Master of Civil Engineering and Master of Electrical Engineering will be conferred upon those who have spent at least two years after graduation in the active practice of their profession and have presented theses (with plans) satisfactory to the examiners, upon any engineering work with which they have been connected.

Course in Civil Engineering

The course in Civil Engineering is designed to give a broad education in those general and scientific subjects which are the foundation of all branches of engineering and a special training in those subjects especially related to Civil Engineering, enabling the student to take a position in any of the special branches, such as:—

- (1) Railroad Engineering.
- (2) Land Surveying.



READY FOR FIELD WORK



DRAUGHTING ROOM

- (3) Railway and Geodetic Surveying.
- (4) Highway Construction.
- (5) Hydraulic Engineering.
- (6) Land Irrigation.
- (7) Municipal Engineering (including design and construction of roads and pavements, water supply systems, sewerage systems).
- (8) Sanitary Engineering.
- (9) Bridge and Structural Engineering.

As Civil Engineering is the most general of all the branches of Engineering, and as the Civil Engineer frequently has to deal with problems involving electrical and mechanical work, the course also provides instruction in the principles of Steam and Mechanical Engineering, as well as in the principles of Electrical Engineering.

With this groundwork the student has a wide field from which to choose his life work, and the course especially fits him for the management and direction of business and engineering enterprises after he has received the necessary practical experience.

Course for Land Surveyors.

The course has been especially arranged so that students who intend to take out licenses as Land Surveyors may select subjects from the Civil Engineering course which bear directly upon the examination for Land Surveyors.

Electrical Engineering.

The work of the first two years of the Electrical Engineering course is the same as that given in the Civil Engineering course. The syllabus of the work for the last two years will be published a few weeks later than the issue of this Calendar, and may be had on application to the Registrar.

Method of Instruction

Instruction is given by lectures, recitations and class room work, together with actual practice in field and in drawing work.

1

Admission to Engineering Department

Students may be admitted to the Engineering Department as:

- (1) Undergraduates.
- (2) Conditioned Students.
- (3) Partial Students.

Undergraduate Students are those who are taking the full course leading to a degree and who have satisfied the requirements for matriculation.

Conditioned Students are subject to the same rules as govern Conditioned Students in Arts.

Partial Students are those who do not belong to either of the above classes, but who, with the approval of the Professor, are taking one or more of the special subjects of the Engineering Courses, such students being allowed to attend any class without previous examination provided they satisfy the Professor of their ability to proceed with the class.

Matriculation

(Requirements for 1910)

In order to take the regular course leading to a degree in Civil or Electrical Engineering, a student must pass the Matriculation Examination in the following subjects:

1. MATHEMATICS.—

- (a) *Arithmetic*—As in Arts, save that special attention will be given to Mensuration. See page 25.
- (b) *Algebra*—As in Arts, with the addition of Indices, Surds, Permutations and Combinations, Binomial Theorem, Logarithms, Theory of Quadratic Equations (as in Hall and Knight's Elementary Algebra, omitting Chapters 40 to 43, inclusive). See pages 25 and 29. (Separate paper.)
- (c) *Geometry*—As in Arts, with the addition of Book V, and "Additional Propositions." See pages 25 and 29. (Separate paper.)
- (d) *Trigonometry*—Measurement of Angles, Trigonometric Ratios, Functions of One Angle, Two Angles and Multiple Angles (as in Hall and Knight's Trigonometry, Chapters 1 to 12, inclusive).

2. ENGLISH.—As in Arts. See pages 25 and 27.

3. HISTORY.—As in Arts. See page 25.

4. SCIENCE.—

- (a) *Elements of Botany*—Bergen.
- (b) *Elementary Chemistry*—Preparation and Properties of the Chief Non-Metallic Elements and Compounds.

5. *Any one of the following Languages*—Latin, Greek, French, German. See pages 26 and 29.

When the work is common, the examination in each of these subjects is the same as for Arts. All standards and regulations of the Arts Matriculation prevail in Engineering Matriculation. See pages 24 and 34.

First Year

MATHEMATICS I.—Lectures 6 hours per week.

Algebra—Indices, Surds, Theory of Quadratic Equations, Permutations and Combinations, Binomial Theorem, Logarithms, Exponential and Logarithmic Series, Interest and Annuities.

Geometry—Ratio and Proportion, Similar Polygons and Additional Propositions as in Baker's Geometry

Trigonometry—Up to and inclusive of plane triangles.

Mensuration—Plane Mensuration.

CHEMISTRY I.—Lectures 3 hours per week.; Laboratory 4 hours per week.

For lecture course see page 98.

In addition to attendance at lectures the students are required to spend four to six hours per week in laboratory work. This work is designed to make the student familiar with the ordinary laboratory operations and to lead him to solve simple problems in chemistry by experiment. Several inorganic substances are prepared and studied, while some time is devoted to experiments introductory to qualitative and quantitative work.

ENGLISH—Lectures, 2 hours per week.

- (a) One period for study of prose masterpieces—twelve selections, to be chosen from "Modern English Prose," Carpenter and Brewster (Macmillan).
- (b) One period of practical work, including essays (descriptive and narrative). letters, reports, dictation.

Examination—

One paper on Literature based on text.

One paper on Composition, including (a) Essay based on text; (b) Dictation, if preferred, on some subject connected with Engineering; (c) Compiling of letter or report from data supplied.

DRAWING I.—Lecture and class-room work, 6 hours per week ;
extra office work, 6 to 10 hours per week.

This course affords exercises in :

- (1) Use of drawing instruments and operations.
(Theory and Plates.)
- (2) Freehand Drawing. (Plates.)
- (3) Lettering. (Theory and Plates.)
- (4) Plane Problems, with examples in plane geometry and conic sections. (Theory and Plates.)
- (5) Orthographic, Isometric and Oblique Projections. (Theory and Plates.)
- (6) Tracing and Blue Printing.

BOTANY—Lectures 2 hours per week.

For lecture course see page 94.

Special attention is given in this course to the cellular structure of woods and the development and distribution of the tissues, the internal morphology of the stem, the secondary protective tissues and the effect of the soil, location and climate upon the growth, durability and strength.

Second Year

MATHEMATICS II.—Lectures 6 hours per week.

Geometry—Solid Geometry and Mensuration.

Trigonometry—Spherical Trigonometry.

Conic Sections—Plane Analytical Geometry.

Calculus—Differential.

PHYSICS I.—Lectures 3 hours per week

For lecture course see page 102.

CHEMISTRY II.—Laboratory 6 hours per week.

Systematic qualitative analysis of inorganic substances; determination of constituents of unknown substances; quantitative analysis of iron and steel for carbon, sulphur, phosphorus, etc.; quantitative analysis of hydraulic cements for silica, iron oxides, alumina, calcium and magnesium..

DRAWING II.—Lectures and class-room work 6 hours per week; extra office work 3 hours per week.

Descriptive Geometry—Problems in the relations of straight lines in space, tangencies, intersections and developments, surfaces of revolution, and warped surfaces. (Theory and Plates)

Perspective—(Theory and Plates.)

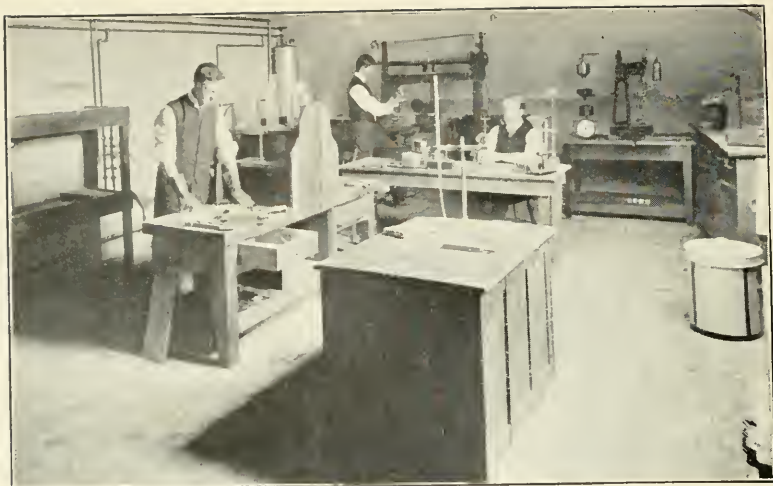
Shades and Shadows—(Theory and Plates.)

Pen and Colored Topography—(Theory and Plates.)

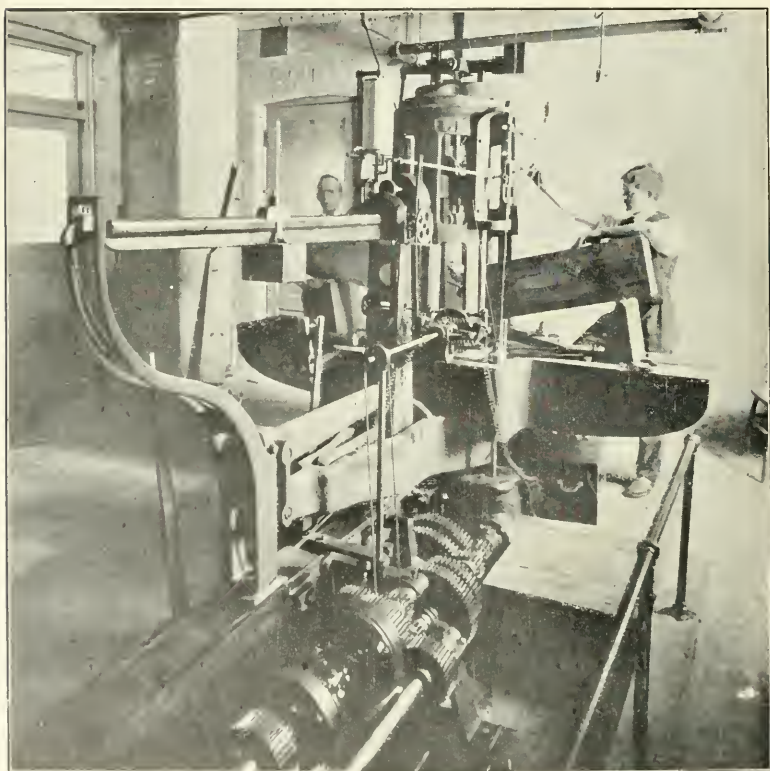
SURVEYING I.—Lectures and class-room work 4 hours per week, field and office work 5 to 10 hours per week.

Use and adjustment of the various surveying and mapping instruments, such as the chain, compass, level, transit, prismatic compass, hand level, etc. (theory and practice); land surveying specially adapted for land surveyors, city surveying, hydrographic surveying, topographic surveying; practice in chain, compass and topography surveys; methods of laying out and dividing land, finding the true north, etc.; maps of actual surveys; use of planimeter.

LOGIC—Creighton's Logic, Parts I. and II.



CEMENT TESTING LABORATORY



TESTING MACHINE 200,000 LBS. CAPACITY

Third Year (Civil Engineering)

MATHEMATICS III.—Lectures 4 hours per week.

Calculus—Differential and Integral.

Astronomy—General.

Kinematics and Dynamics—Impact, Projectiles, Relative Motion and Velocity.

PHYSICS II.—Lectures 2 hours per week; laboratory $2\frac{1}{2}$ hours per week.

Special advanced course in mechanics and heat. Laboratory exercises on mechanics and heat.

GEOLOGY—Lectures 2 hours per week; laboratory 2 hours per week. Outlines of Physical and Historical Geology.

SURVEYING II.—Lectures 3 hours per week; field work and drawing 6 to 8 hours per week.

Railway Surveying and Construction—Preliminary and location surveys for railroads, practice in running in curves, spiralizing curves, setting slope stakes, calculation and measurement of quantities in excavation and embankment construction work, and culverts, track work, switches and crossings. Practice in field methods.

Highway Surveying and Construction—Surveying for highways, country roads and city streets; methods of constructing roads, city streets and pavements.

MATERIALS OF ENGINEERING—Lectures, 4 hours per week.
Laboratory and Office, 5 hours per week.

The various materials used in engineering structures, such as hydraulic cement, mortar, bricks, stone, timber, iron and steel, their properties, manufacture and cost, the elasticity and strength of these materials under different conditions, safe loads and stresses for these materials. Shearing forces and bending moments in simple and continuous beams under uniform and concentrated loads, the application to the designs of beams and girders; investigation and design of long columns, shafts and pulleys.

STRUCTURES I.—Lectures 3 hours per week, second term only.

Theory of earth pressure and its application to retaining walls, dams, etc

Foundations—Bearing power of soils and drainage of foundations; pile foundations; foundations under water; retaining walls, abutments, piers and dams, culverts, etc.

HYDRAULICS I.—Lectures 3 hours per week.

Principles of hydraulics, laws of flow through orifices and over weirs, laws of flow in open and closed channels, laws of flow through long pipes, calculation of discharge of pipes, sizes of pipes, methods of calculating discharge of streams and rivers, hydraulic motors and theory of turbines, calculation of water power.

ECONOMICS AND POLITICAL ECONOMY—Lectures, 2 hours per week.

Elementary principles of political economy, law of supply and demand, practical economic problems, taxation, transportation, finance, labor, trusts and monopolies, banks and their relation to industrial enterprises.

Fourth Year (Civil Engineering)

PHYSICS III.—Lectures 2 hours per week; laboratory $2\frac{1}{2}$ hours per week.

Special advanced course in electricity and magnetism, electrical measurements and electrical machinery; laboratory practice in actual measurements.

MINERALOGY—Lectures 3 hours per week; laboratory—blow-pipe analysis.

Crystallography, elementary course in physical, chemical and descriptive mineralogy, with practical exercises in the determination of the more common mineral species; blowpipe analysis.

METALLURGY—Lectures 2 hours per week.

Special reference to the metallurgy of iron and steel and its manufacture.

STRUCTURES II.—Lectures and class-room work 6 to 10 hours per week; office hours 3 to 6 hours per week.

Calculation of stresses in wooden and iron roof trusses, railway and highway bridges for uniform loads, excess loads and wheel concentrations; design of roof trusses, bridges, trestles, viaducts, etc.; calculation of stresses in metallic and masonry arches; design of arches.

HYDRAULICS II.—Lectures 4 hours per week.

Water Supply—Relation of rainfall to run-off from drainage areas, storage of water from drainage areas, reservoirs, calculation of water supply for cities and irrigation purposes, quality of water and relation to disease, distribution systems and plant, filtration and purification.

Sanitary Engineering and Sewerage—Elements of sanitary engineering, design and construction of sewerage systems, separate and combined systems, size and discharge of sewers.

SURVEYING III.—Lectures 2 hours per week.

Geodetic Surveying—Base line measurements, triangulation, adjustment of triangles, precise leveling, determination of time, latitude and longitude, use of the solar compass and solar attachment to transit.

RAILWAY ECONOMICS—Lectures 2 hours per week.

Organization and financing of railway companies; effect of grade, curvature and distance on the operating expenses; relation of operating expenses to gross revenue and fixed charges; relation of probable traffic to population; costs of betterment of existing lines in relation to saving in operating expenses and increase in gross revenue.

ENGINEERING LAW—Lecture 1 hour per week.

Dominion and Provincial laws relating to land and land surveys; law of contracts.

Third and Fourth Years (Electrical Engineering)

The Third and Fourth Year courses in Electrical Engineering will be published under separate cover at an early date, and may be had on application to the Registrar.

Summer Theses

Students of the First, Second and Third Years will be required to prepare during the summer following each of these years a thesis describing in detail some piece of engineering work or structure, or describing any work with which they have been connected during the vacation.

These theses must be submitted to the Professors of Engineering on or before October 15th.

Graduation Thesis

Every student of the Fourth Year is required to prepare a design, with adequate drawings, of some engineering work or enterprise, or to complete an original research on some material of construction.

The subjects of these theses are to be submitted for approval to the Professors of Engineering not later than January 15th, and the completed reports must be handed in on or before April 15th.

Examinations

In order to pass in any examination of the Engineering Course (beyond Matriculation) candidates are required to make a standing of 50 per cent. on each subject. The practical work in the field, drafting room and class-room during the session is counted.

Equipment

SURVEYING INSTRUMENTS—The University has the following equipment of surveying instruments:—

Buff & Buff Transit, with stadia wires, gradienter and solar attachment.

Cooke Transit Theodolite, stadia wires and attachments.

K. & E. Transit, stadia wires and attachments.

K. & E. Extra Fine Light Mountain Transit.

Watts' Latest Pattern Transit.

5" Dominion Land Surveyor's Transit.

Buff & Buff Dumpy Level.

Buff & Buff 18" Y Level.

Cooke Reversible Level.

Stanley New Pattern Level.

K. & E. 18" Y Level.

Watts' Y Level.

Railway Compass. 4" Compass and Prismatic Compass.

Pocket Sextant and Sextant reading to 10 seconds.

Plane Table, Current Meter, Levelling Rods, Pickets, Chains, Tapes, Hand Levels, Stadia Rods, etc.

MATERIAL TESTING LABORATORY.—This laboratory is equipped with a large Testing Machine of 200,000 lbs. capacity, a Richlé Yale Extensometer, a Compressometer, a Transverse Indicator, and all the necessary tools for tensile, compressive, transverse and shearing tests.

The machine is especially designed so that it can make transverse tests on beams eight feet long. It is both automatic and autographic, and is driven by an eight-horse power 500-volt direct current motor.

The machine is used for testing the strength of iron, steel, wood, stone, brick, concrete and reinforced concrete used in engineering structures.

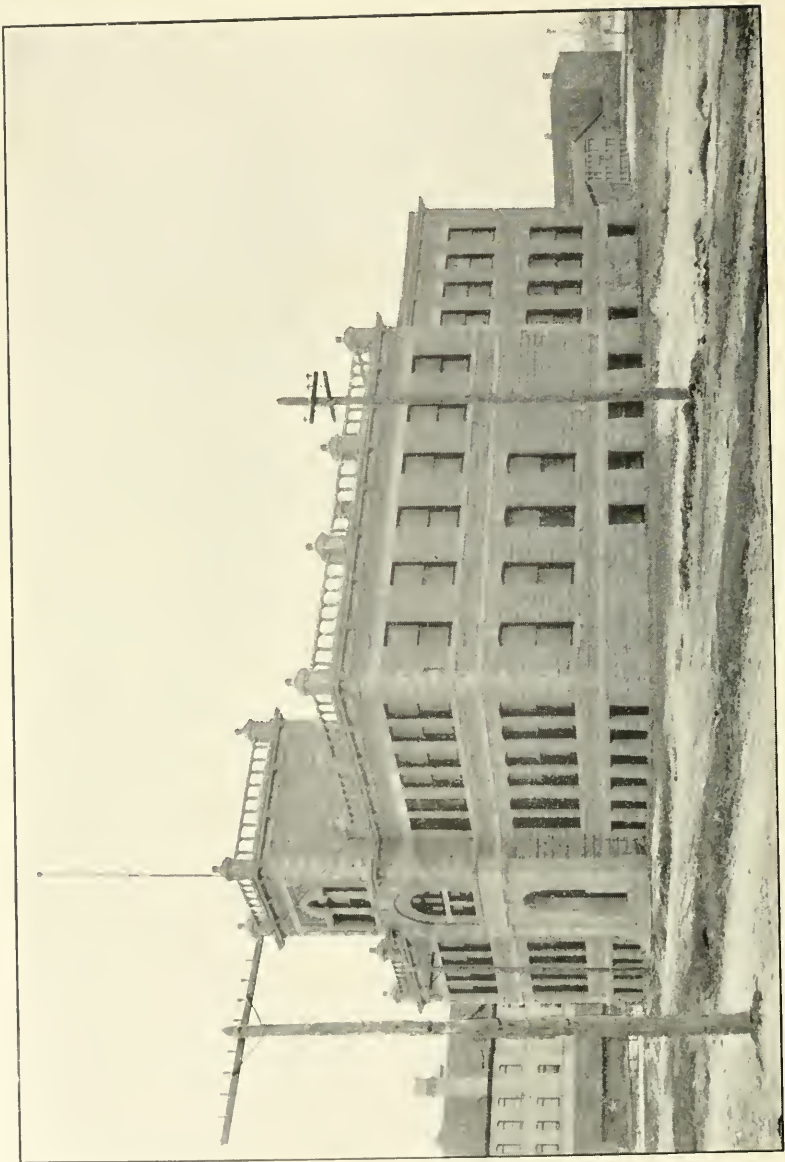
CEMENT LABORATORY.—This laboratory is equipped with all the apparatus for making the usual commercial tests on hydraulic cements.

The apparatus includes a Richle Shot Testing Machine, a Richle Automatic Beam Testing Machine for making tensile, compressive, transverse and torsion tests; briquette moulds, sand and cement sieves, Vicat needle apparatus and Gillmore needles, balances, moist closet, Immersion tanks, mixing tables, steaming and boiling apparatus, drying oven, volumenometers, specific gravity apparatus and other accessories. The beam testing machine is run by a three-phase 60-cycle motor, and is also provided with batteries for automatic record.

DRAWING MODELS AND BLUE PRINT ROOM.—Several models have been made especially to order for use in Projection and Descriptive Geometry, while more are being ordered.

The blue print room has a large blue print frame supported by a carriage, so that the frame can be turned in any direction or at any angle.

Provision is made for washing and drying blue prints, as well as for preparing same, if necessary.



MANITOBA MEDICAL COLLEGE

CURRICULUM IN MEDICINE

The following are the requisites for proceeding in course to admission to the degrees of Doctor of Medicine and Master of Surgery:

Doctor of Medicine

1. The presentation of documentary evidence to the Registrar that the applicant is a Bachelor or Doctor of Medicine of some recognized University in His Majesty's Dominions; or

2. Passing either:

(a) The Matriculation Examination in Arts or Medicine, or the examination of the First Year in Arts of this University;

(b) The Medical Matriculation Examination of a University recognized by the University of Manitoba; or,

(c) The presentation of certificates to the Registrar of equivalent or higher standing in some recognized University in His Majesty's Dominions; and compliance with the other requirements hereinafter specified.

Matriculation Examination

All candidates for the Matriculation Examination must take the following fixed subjects:

1. Latin.
2. Mathematics, embracing Arithmetic, Algebra and Geometry.
3. English.
4. History.
5. Botany. Elements of Botany (Bergen).
6. Physics. (High School Physics, Part I.)

In the case of each of these subjects this examination shall be the same as that prescribed for both Parts I. and II. of the Arts Matriculation Examination, and the same standard shall be required to entitle the candidate to pass. The Examination may be taken at one time, or in two parts, as outlined for Matriculation in Arts.

This Matriculation Examination shall be held twice a year, viz.: in May, beginning on the fourth Monday, and in September beginning on the third Thursday. There shall be no Supplemental Examination granted except at these dates. Only Matriculated Students shall be allowed to present themselves for any higher examination; provided that Candidates who may present Teachers' Certificates not covering Latin may as Conditioned Students proceed with their course with the view of subsequently obtaining full Matriculation standing. Such condition must be removed before the commencement of the Second Year.

In place of the above Matriculation Examination the University has agreed to accept the Matriculation of the College of Physicians and Surgeons of the Provinces of Quebec and Ontario; the Medical Students' registration certificate of the Medical Council of Great Britain and Ireland; the non-professional Second-Class Teachers' Certificates of Manitoba, Ontario, Saskatchewan and Alberta; also the Ontario High School Intermediate and Junior Leaving Examinations; except that the Latin and the compulsory Natural Science of the Matriculation Examination of the University must be taken by those who have not taken these subjects in the said High School or Teachers' Examination.

Holders of certificates of educational value from other institutions than those mentioned, will receive such standing as the Council of the University may see fit to grant.

A Bachelor of Arts of any University in His Majesty's Dominions is admitted to the study of medicine without further examination.

After fulfilling the requirements in reference to the Matriculation Examination, the candidate shall pass five examinations before taking the degree, viz.: First, Second, Third

Fourth and Fifth Year Examinations. Prior to presenting himself for each of these examinations, he shall produce sufficiently certified tickets, from some University, College or School, recognized by the University of Manitoba, for the courses of lectures specified hereinafter.

First Year Examination

1. Physics (1 course of 70 lectures).
 2. Zoology (1 course of 50 lectures).
 3. Chemistry (1 course of 50 lectures).
 4. Practical Chemistry (1 course of 50 periods of two hours each).
 5. Anatomy (1 course of 50 demonstrations).
 6. Anatomy, Practical (Upper and Lower Extremity and Thorax).
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Second Year Examination

1. Anatomy (a further course of 50 demonstrations).
 2. Anatomy, Practical (the whole body).
 3. Organic Chemistry (1 course of 20 lectures).
 4. Physiology, Theoretical (1 course of 50 lectures).
 5. Physiology, Practical (1 course of 50 periods of 2 hours each).
 6. Materia Medica and Pharmacy (1 course of 30 lectures).
 7. Sanitary Science (1 course of 25 lectures).
 8. Histology (1 course of 25 demonstrations).
 9. Histology, Practical (1 course of 50 periods of 2 hours each).
-

Third Year Examination

1. Anatomy, Applied (1 course of 35 demonstrations).
2. Physiology, Theoretical (a further course of 50 lectures).
3. Physiology, Practical (a further course of 50 periods of 2 hours each).
4. Therapeutics (1 course of 50 lectures).

5. Medical Jurisprudence (1 course of 15 lectures).
6. Pathology. Theoretical (1 course of 50 demonstrations).
7. Pathology, Practical (1 course of 50 periods of 2 hours each).
8. Physical Diagnosis (Out-door) (1 course of 25 demonstrations).
9. Splints and Bandaging (Out-door) (1 course of 25 demonstrations).

No examination required in Physical Diagnosis and Splints and Bandaging.

Fourth Year Examination

1. Bacteriology (1 course of 25 demonstrations).
2. Bacteriology, Practical (1 course of 25 periods of 2 hours each).
3. Medicine, Part I. (1 course of 50 lectures).
4. Surgery, Part I. (1 course of 50 lectures).
5. Clinical Medicine (1 course of 50 lectures).
6. Clinical Surgery (1 course of 50 lectures).
7. Obstetrics (1 course of 50 lectures).
8. Gynaecology (1 course of 35 lectures).
9. Pediatrics (1 course of 25 lectures).
10. Anaesthetics (1 course of 10 lectures or demonstrations).

No examination required in this year in Clinical Medicine and Clinical Surgery.

Fifth Year Examination

1. Medicine, Part II. (a further course of 50 lectures).
2. Surgery, Part II. (a further course of 50 lectures).
3. Clinical Medicine (a further course of 50 lectures).
4. Clinical Surgery (a further course of 50 lectures).
5. Clinical Obstetrics.
6. Clinical Gynaecology.
7. Ophthalmology and Otology (1 course of 20 lectures and 20 practical demonstrations).
8. Operative Surgery (1 course of 25 practical demonstrations).
9. Orthopedic Surgery (1 course of 25 lectures or demonstrations).

Each candidate for this examination shall also furnish documentary evidence of attendance for twenty-four months at some incorporated General Hospital, and also of eight months'

practice in a Lying-in Hospital, or of having had equivalent obstetrical advantages, with a certificate of attendance upon at least eight cases of labor.

The tickets (except the General Hospital ticket) for examination must all be for attendance subsequent to the date when the candidate presenting them should have gone up for his Second Year Examination, and must extend over two full Winter Sessions of seven months each.

In the case of any student from another University taking *ad Eundem Statum* in this University, it shall be at the option of the Board of Studies to admit such a student, even although his tickets may conflict with the foregoing regulations, but no student from another University can be admitted to the Fifth Year Examination unless he has attended one full seven months' Winter Session, taking out all the Fifth Year tickets of a Medical School in this Province affiliated with this University.

When a student is a graduate in Arts in any recognized University in His Majesty's Dominions, he may complete his medical course in four Winter Sessions of seven months each, and shall not be required to produce a ticket for Physics, Botany, Chemistry, Practical Chemistry, or to pass an examination in Physics, Botany, Chemistry, or Practical Chemistry of the First Year, provided he shall satisfy the Board of Studies that he has already passed on such subjects in his course in Arts.

The tickets of such student in Medicine, Surgery, Obstetrics and Diseases of Children, Diseases of Women, Medical Jurisprudence, Clinical Medicine, Clinical Surgery, and Pathology, must all be for attendance subsequent to the end of his second full Winter Session at College. Honor graduates in Natural Science shall not be required to present tickets, or pass an examination in any subjects included in their Science Course.

A graduate in Arts may take either his First and Second Years examinations, or his Second and Third Years examinations at the same time.

By *sufficiently certified tickets* referred to in this Statute, it is meant that each ticket shall have entered upon it the number of lectures delivered on the subject and the exact number of lectures attended by the student, and that each ticket

shall be signed by the professor, and further that the student presenting the ticket shall have actually attended three-fourths of the whole number of lectures required on the subject. Such tickets must be lodged with the Registrar by the candidate, at least ten days before the beginning of the examination for which he intends presenting himself.

Each lecture (unless otherwise stated) shall be of one hour's duration, and, as far as practicable, not more than one lecture on each subject shall be delivered on each separate day.

In case of candidates for License to practice medicine, their application shall be referred to the College of Physicians and Surgeons for Manitoba, and on that body giving a satisfactory certificate as to the education and practical training of such candidates, they shall be admitted to the regular examinations in Therapeutics of the Third Year, and in all the subjects of the Fourth and Fifth Years.

There shall be one paper for Pass and Honors in each subject, and the total value of each paper shall be one hundred marks. Fifty per cent. of the marks in each subject shall be required to satisfy the Examiners.

The examinations shall be written, except in Clinical and Practical subjects.

To obtain Honors in each subject, or in the whole examination, of any year, a candidate must obtain 67 per cent. of the marks given in each subject, or of the total marks given for the examination of the year.

Supplemental Examinations in each year in Medicine will be allowed to those students who fail in not more than two subjects.

Students entitled to a Supplemental Examination must present themselves at *the next ensuing examination*. Should they again fail they may, as Conditioned Students, proceed with their Course with the view of subsequently obtaining full standing in their year. Provided always that no student be allowed to have more than three conditions registered against him at any one time.

Such Supplemental Examinations or Conditions *must* be removed as follows:

(a) Supplemental Examinations of the First Year must be removed before the commencement of the Third Year.

(b) Supplemental Examinations of the Second Year must be removed before the commencement of the Fourth Year.

(c) Supplemental Examinations of the Third Year must be removed before the commencement of the Fifth Year.

The Examiners in Medicine shall be appointed by the Council on the nomination of the Board of Studies.

All Degrees in Medicine shall be conferred by the Council at its regular meetings or at meetings specially called for that purpose.

Text-Books

ANATOMY—

First Year:

- (a) Holden's Osteology.
- (b) Cunningham's Manual of Practical Anatomy.
- (c) Morris' Human Anatomy.

Second Year:

Morris' Human Anatomy.

Third Year:

Applied Anatomy, Taylor.

Fifth Year:

Surgical Operations, Bickham.

Pharmacology and Therapeutics—Lauder Brunton. Whitla, Bruce, Garrod, White, Butler.

Histology—Stohr, Piersol.

Pathology—Hamilton, Stengel, Coates.

Surgery—Moulin, Treves, Walsham, Park, **International Text Book.**

Practice in Medicine—Osler, Tyson.

Clinical Medicine—Klemperer, Musser, Church, Peterson on Nervous Disorders, Rainy & Hutchinson.

Clinical Surgery—Pearce Gould, Hutchinson's Clinical Lectures.

Medical Jurisprudence—Reese, Witthaus and Becker, Husband.

Mental Diseases—Clouston.

Obstetrics—Hirst, American Text Book, Williams, Edgar.

Diseases of Children—J. Lewis Smith, T. Emmett Holt, Taylor and Wells, Roch.

Gynæcology—Dudley, Hirst, Garrigues, Penrose.

Hygiene—Parkes, Rohe, Blythe, Stevenson and Murphy.

Ophthalmology—Swanzy, De Schweinitz.

Otology—Pritchard, Dench.

MASTER OF SURGERY

The additional qualification to that required for the M.D. degree to obtain C.M., shall be the passing of an examination in Operative Surgery and writing a Thesis, in the presence of the Examiners, on some assigned subject in Surgery.

The Candidate must obtain 75 per cent. of the total marks in this examination in order to secure the C.M. degree.

REGULATIONS REGARDING LICENSE TO PRACTICE MEDICINE IN MANITOBA

The College of Physicians and Surgeons is the Sole Licensing Body in Medicine in the Province, and the University of Manitoba is the sole Examining Body.

If the applicant for license be a graduate in medicine of any Canadian University, he should send to the Registrar of the College of Physicians and Surgeons, prior to the 1st of March, his medical degree (as a credential), and, upon this being found satisfactory, he shall be reported to the University as eligible to write at the examination, which begins at 9 a.m. on the 3rd Monday in April, at the University building.

In the case of a graduate from any university in the United States or other foreign country, he shall be required, in addition to sending his degree, (or diploma) to furnish complete detailed and authoritative information to D. M. Dunean, Registrar of the University, as follows:

First:—As to his Matriculation; giving name and address of the institution in which he was examined, the subjects, and the extent of each required.

Second:—As to medical course; the number and length of sessions, subjects taught, number of courses in each, and number of lectures in each course, amount of clinical instruction in the different courses, etc., etc.

On receipt of this information the University will decide as to the eligibility or otherwise of the applicant to write for license.

Each applicant, at the same time that he sends his credentials to the Registrar of the C.P.S., should send \$15 examination fee in a separate communication addressed to the Registrar of the University, which will be returned to him in case he is not permitted to write.

A candidate failing in three or more subjects must write on the whole examination again, and can only do so at a subsequent regular spring examination. If he fail in two subjects, or less, he will be required to write on these only, and may do so at the time of the Supplemental Examinations, beginning the third Thursday in September, or at any subsequent regular examination.

The subjects of examination for license are:—WRITTEN: Medicine, Surgery, Obstetrics and Diseases of Children, Gynæcology, Materia Medica and Therapeutics. ORAL:—Clinical Medicine, Clinical Surgery, Clinical Ophthalmology and Otology. 50 per cent. required in each subject to pass.

The fee for license, \$75, is payable immediately after the receipt by the Registrar of the C.P.S. of a satisfactory report from the Registrar of the University as to the result of the Candidate's examination.

No interim permit to practice is granted.

J. S. GRAY, M.D., Registrar C.P.S., Man.
Fort Garry Court, Winnipeg.

CURRICULUM IN LAW

A candidate for the Degree of Bachelor of Laws must:—

1. Have presented documentary evidence to the Registrar that he is a Bachelor of Laws, or Bachelor of Civil Law, of some recognized University in His Majesty's Dominions; or

2. Have passed the Matriculation Examination hereinafter mentioned, or have presented documentary evidence to the Registrar that he has passed the Primary and First intermediate Examinations of the Law Society of Manitoba; or of such other Law Society as the Board of Studies may from time to time recommend;

and

(a) Thereafter have passed in separate years the subjects hereinafter laid down for examination;

(b) Be of the full age of twenty-one years.

Any person who is a graduate in Arts of any University in His Majesty's Dominions, or who has been admitted a Barrister or Solicitor by the Law Society of Manitoba, or by any Law Society recognized by the University of Manitoba, may enter the Faculty of Law at the Second Year's Examination.

Matriculation Examination

The subjects of this Examination shall be the same as those for the Matriculation Examination in Arts in the University of Manitoba, and the same standard shall be required to entitle the candidate to pass. (See pages 24-35.)

First Year

1. CREIGHTON.—Logic.
2. SROUT.—Psychology.
3. BAGEHOT.—English Constitution.
4. O'SULLIVAN'S Canadian Manual.—Civil Polity.
5. TASWELL-LANGMEAD.—Constitutional History.
6. WILLIAMS.—Real Property.
7. ANSON.—Contracts.
8. DEANS.—The Student's Legal History.
9. STREET.—Foundations of Legal Liability, Vol. I. (Tort.)

Second Year

1. MAY.—Constitutional History.
2. TODD.—Parliamentary Companion for the Colonies.
3. MACKENZIE.—Roman Law.
4. BEST.—Law of Evidence.
5. RATCLIFFE AND MILES.—Cases Illustrating Principles of the Law of Torts.
6. LEITH.—Blackstone (Armour's Edition).
7. DICEY.—Conflict of Laws.
8. SNELL.—Equity.
9. STREET.—Foundations of Legal Liability. Vol. II. (Contract).

Final Year

1. CLEMENT.—The Law of the Canadian Constitution.
2. HALL.—International Law.
3. HOLDSWORTH.—A History of English Law, Vol. I.
4. BROOM.—Constitutional Law.
5. MAINE'S ANCIENT LAW.—Jurisprudence.
6. SMITH.—Mercantile Law, Vol. I.
7. DICEY.—The Law of the Constitution.
8. STREET.—Foundations of Legal Liability. Vol. III. (Actions.)

The percentages required in the Faculty of Law shall be the following:

34 per cent. on each subject; 50 per cent. on the total.

Supplemental examinations in Law will be allowed to those students who fail in not more than two subjects, providing their average on the whole examination reaches 50 per cent. of the total marks given; such supplemental examinations must be passed as provided in the case of conditional students in Arts.

On the successful completion of this Course, the Degree of LL.B. shall be conferred upon candidates.

The time of the examination shall be the same as that of the examination in Arts in each year.

All Degrees in Law shall be conferred by the Council at its regular meetings, or at meetings specially called for that purpose.

CURRICULUM IN PHARMACY

DEGREE OF BACHELOR OF PHARMACY

Matriculation

Candidates for the degree of Bachelor of Pharmacy must either:

1. Have passed a Matriculation Examination accepted by the University of Manitoba; or
2. Be the holders of such other certificates as in the opinion of the University may be equivalent thereto; and have complied with the other requirements hereinafter specified.

Regulations

A—Undergraduates resident in the Province of Manitoba must have complied with all the requirements prescribed from time to time by the Council of the Pharmaceutical Association of Manitoba for admission to examination for the diploma licensing to practice Pharmacy in Manitoba.

B—Undergraduates not resident in the Province of Manitoba:—

(1) Must have devoted at least four years (not being engaged in any other business) to the study of Pharmacy, being apprenticed during that time, to a regular Pharmaceutical Chemist.

(2) Must have attended a full course of lectures, embracing all the subjects of the Curriculum, the length of each course being not less than that required from time to time by the Council of the Pharmaceutical Association of Manitoba, and including practical work at some College of Pharmacy recognized by this University.

All candidates who have, prior to June 1, 1905, received the diploma of the Manitoba College of Pharmacy, shall not be required to conform to the above, but shall be allowed their degrees on passing the examination in the subjects hereinafter given.

Examinations

Candidates for the degree must pass an examination to be held in the month of May of each year, and must present to the Registrar of the University certificates covering all the requirements relating to undergraduates as given above.

The subjects for this Examination shall be as follows:

- (a) Botany, with use of the microscope.
- (b) Theoretical and Practical Chemistry.
- (c) Physics as outlined for students of Third Year in Arts.
- (d) Materia Medica, and Toxicology.
- (e) Theory and Practice of Pharmacy, including interpretation of Prescriptions and Dispensing.

These examinations shall be partly written, and partly practical.

No candidate shall be considered as having passed the examination who has not obtained 67 per cent. of the marks allotted; nor shall a candidate be considered as having passed in any subject who has not obtained at least 50 per cent. of the marks allotted to such subject.

Fees

For Matriculation or registration of Matriculation....	\$ 5 00
For Tuition (each course of study)	8 00
For annual Examination	8 00
For the Degree of Plum. B.	10 00

The Course of Studies leading up to License in Pharmacy, and the regulations concerning length of apprenticeship, etc., as outlined in the Announcement of the Manitoba College of Pharmacy for 1901-05, are in the meantime approved.

All candidates for the Degree of Bachelor of Pharmacy must attend University Lectures and pass University Examination in Botany of the First Year, Theoretical Chemistry of the Second Year, and Physics of the Third Year in Arts.

CURRICULUM IN COMMERCIAL EDUCATION

Candidates for the Diploma in Commercial Education must either:—

1. Have passed the Matriculation Examination required by the University of Manitoba; or

2. Be the holders of such other certificates as in the opinion of the University may be equivalent thereto; and have complied with the other requirements hereinafter specified.

Matriculation

Candidates for this Examination shall take the following fixed subjects:

English,
History,
Mathematics;

and any two of the following options:

Latin,
French,
German.

The requirements in each of these subjects shall be the same as those for the Matriculation in Arts, and the same standard shall be required to entitle the candidate to pass. (See pages 24-35.)

After fulfilling the requirements in reference to the Matriculation Examination, the candidate shall complete a course of two years' duration. A diploma shall be given to those who are successful in passing examination in the prescribed subjects.

First Year Examination

1. English,—as of the First Year in Arts.
 2. French or German,—as of the First Year in Arts.
 3. Modern History and Geography—Colonies and Colonial Federations, ed. E. J. Payne. (Macmillan & Co. The English Citizen Series.)
 4. Canadian Constitutional History (Bourinot).
 5. Political Economy.—F. A. Walker.
-

Second Year Examination

1. English,—as of the Second Year in Arts.
2. French or German,—as of the Second Year in Arts.
3. Political Economy,—Laughlin's Mill.
4. Commercial Law and Science.

The time of the examinations shall be the same as that of the examinations in Arts in each year.

CURRICULUM IN AGRICULTURE

Provision has been made for an advanced course leading to a degree in Agriculture by the adoption in the University Council of the following regulations:

(a) A degree shall be granted in Agriculture, to be called Bachelor of Science in Agriculture.

(b) The course leading to the B.S.A. degree shall extend over a period of five years of five months each.

(c) A candidate to gain admission to the Third Year must hold a diploma from the Manitoba Agricultural College or its equivalent, and must have satisfied the Faculty of that Institution as to his ability to proceed.

(d) After completing the first three and a half years of the full course a student may proceed to the degree of B.S.A. by specializing in either of the following courses:

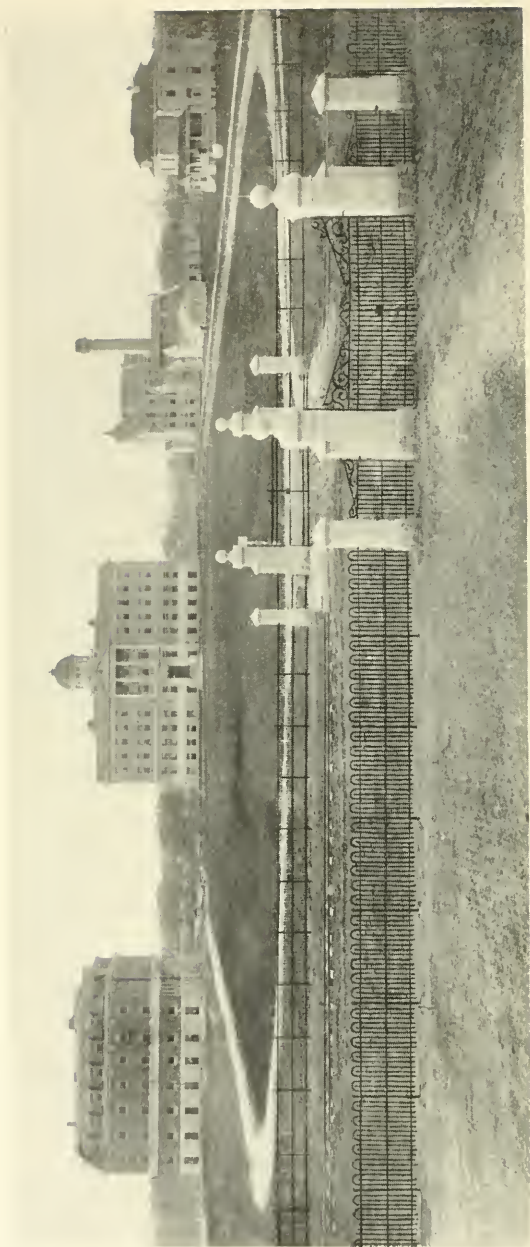
(1) Field Husbandry and Animal Husbandry.

(2) Dairying.

(e) Students taking the course in Field Husbandry and Animal Husbandry must spend between the Second and Fifth Years of their course at least six months during the summer in practical work on a farm, and those taking the course in Dairying, one summer in practical work in a creamery or cheese factory.

(f) The examinations of the Third, Fourth and Fifth Years of the course in Agriculture shall be conducted by the University.

N.B.—For detailed outline of the Course in Agriculture, see the calendar of the Manitoba Agricultural College.



MANITOBA AGRICULTURAL COLLEGE

TIME TABLES

1909—1910

Mathematics and Science

First Year :

Biology (option)—

Botany—3-4 Wednesday and Friday.

Zoology—3-4 Monday and Thursday.

Second Year :

Mathematics (option)—3-4 Daily.

Chemistry (option)—4-5 Monday, Wednesday, Friday.

General Course—Third Year :

Physics—2-3 Monday, Wednesday, Friday.

General Course—Fourth Year :

Natural Science—

Geology—2-3 Tuesday and Thursday.

Astronomy—3-4 Tuesday and Thursday.

Other Courses—Third Year :

Physics—2-3 Monday, Wednesday, Friday.

MATHEMATICAL STUDENTS.

Third Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Calculus	Trigonometry (1st term)	Calculus	Trigonometry	Calc. (1st term) Trig. (2nd term)
10-11	Algebra	Anal. Geom.	Algebra	Physics Lab.	Anal. Geom.
11-12	Physics		Physics	Physics Lab.	Physics
12-1					
1-2					
2-3	Physics		Physics		Physics
3-4					

MATHEMATICAL STUDENTS.

Fourth Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Solid Geom.		Solid Geom.		
10-11	Diff. Calc.	Physics Lab.	Statics	Diff. Calc.	Statics
11-12		Physics Lab.			
12-1					
1-2					
2-3		Int. Calc.	Diff. Equations	Int. Calc.	Diff. Equations
3-4		Astronomy		Astronomy	

NATURAL SCIENCE STUDENTS.

Third Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Chem. Lab.	Mineralogy	Chem. Lab. (After Christmas)	Mineralogy	Chem. Lab. (After Christmas)
10-11	Chem. Lab.	Physics Lab.	Chem. Lab.	Botan. Lab.	Chem. Lab.
11-12	Physics	Physics Lab.	Physics	Botan. Lab.	Physics
12-1					
1-2					
2-3	Physics		Physics		Physics
3-4	Zoology		Botany	Zoology	Botany
4-5	Chemistry		Chemistry	Pract. Zoology	Chemistry
5-6				Pract. Zoology	

NATURAL SCIENCE STUDENTS.

Fourth Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10	Chem Lab.		Chem. Lab.		Chem. Lab.
10-11	Chem Lab.	Botan. Lab.	Chem. Lab.	Physics Lab.	Chem. Lab.
11-12		Botan. Lab.	Botany Lect.	Physics Lab.	Botan. Lab.
12-1		Botan. Lab.			Botan. Lab.
1-2					
2-3	Botany Lect.	Geology		Geology	
3-4	Organic Chem.		Organic Chemistry	Practical Geology	
4-5				Practical Geology	

ENGINEERING STUDENTS.

First Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Drawing		Chem. Lab.	Geometry	Chem. Lab.	Field Work
10-11	Drawing		Chem. Lab.	Trigonometry	Chem. Lab.	Field Work
11-12	Drawing	Trigonometry	Surveying	Drawing	Surveying	Field Work
12-1						
1-2						
2-3	Algebra		Algebra			
3-4			Botany		Botany	
4-5	Chemistry		Chemistry		Chemistry	

ENGINEERING STUDENTS.

Second Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Calculus	Geom. and Mens.	Calculus	Drawing Sph. Trig. (2nd term)	Calculus (1st term) Sph. Trig. (2nd term)	Field Work
10-11	Chem. Lab.	Drawing	Chem Lab.	Drawing	Chem Lab.	Field Work
11-12	Chem. Lab.	Drawing	Chem Lab.	Drawing	Chem Lab.	Field Work
12-1						
1-2						
2-3	Physics	Surveying	Physics	Surveying	Physics	
3-4			Anal. Geom.		Anal. Geom.	

MEDICAL STUDENTS.

First Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2-3	Physics	Practical Chemistry	Physics		Physics
3-4	Zoology	Practical Chemistry	Botany	Zoology	Botany
4-5	Chemistry	Practical Chemistry	Chemistry	Practical Zoology	Chemistry
5-6				Practical Zoology	

MEDICAL STUDENTS.

Second Year

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2-3	Elementary Physiology Lectures		Elementary Physiology Lectures		
3-4	*Elementary Practical Physiology		*Elementary Practical Physiology		
4-5	Elementary Practical Physiology		Elementary Practical Physiology		
5-6					

*From 3-4 before Christmas a course of lectures in Organic Chemistry is given in the Chemical Department. During this term the practical work is experimental Physiology. After Christmas the practical work is Physiological Chemistry.

MEDICAL STUDENTS.

Third Year

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2-3	Advanced Physiology Lectures			Advanced Physiology Lectures
3-4	Advanced Practical Physiology			Advanced Practical Physiology
4-5	Advanced Practical Physiology			Advanced Practical Physiology
5-6				

GENERAL REGULATIONS

REGISTRATION

All Undergraduates in Arts and Medicine in attendance at the various Colleges, whether attending Lectures in the University Building or not, shall register, each year of their course, with the Registrar of the University, within two weeks after entering College. Any student who neglects to register within two weeks after entering College will be subject to a fine of \$2.00.

EXAMINATIONS

(a) Undergraduate

The Regular University Examinations for Undergraduates in Arts, Engineering, Law and Medicine, begin on the third Monday in April, in each year, at the University building.

Examinations up to the end of the SECOND YEAR IN ARTS may also be held at such centres in Manitoba, Saskatchewan, Alberta, and British Columbia, as the Board of Studies may from time to time approve of; it being understood that this does not apply to the practical examinations in the Natural Science and Engineering subjects of these two years.

That where in the Provinces of Manitoba, Saskatchewan, Alberta, and British Columbia, Incorporated Colleges have been, or may be established, the University of Manitoba, on being satisfied that their buildings are sufficient, and that the staff is competent to give instruction in the Arts course, in whole or in part, may give recognition to such institutions, and on arrangements being made by candidates or otherwise to meet the necessary expenses, grant examinations to such institutions, and give University standing to successful candidates.

(b) Matriculation

The *Examinations for Matriculation* in all Faculties are held twice in each year, beginning on the fourth Monday in May and on the third Thursday in September.

The examination in May is held in the University Building, and on application at the following centres in connection with the College, Collegiate Institute or High School as the case may be: Portage la Prairie, Carberry, Brandon, Virden, Neepawa, Carman, Selkirk, Morden, Dauphin, Regina, Calgary, Edmonton, Prince Albert, Vancouver, and Victoria, and at such institutions as may from time to time be approved of by the Board of Studies.

The September Examination is held at the University Building only.

(c) Local

Application for a *Local Examination* shall be made to the Registrar of the University by the Trustees or other authorities of a College or School, at least six weeks before the date of Examination in each year.

The Presiding Examiner or Examiners at each Centre shall be appointed by the Board of Studies. Where the number of candidates exceeds fifteen there shall be at least two Presiding Examiners.

The fee for the Presiding Examiner or Examiners at a Centre shall be \$2.00 per half day each, and this fee and such other expenses as may be incurred in connection with the Local Examination shall be paid by the authorities of the School or College on whose application the Examination is held.

(d) Supplemental

Supplemental Examinations begin on the third Thursday in September in each year, and (except as otherwise provided) shall be allowed to those students who fail in not more than

three papers, provided that their average on the whole Examination is such as will admit of their being granted Third Class Standing, viz.:

- (a) For Matriculation, 40 per cent.
- (b) For Arts, 40 per cent.
- (c) For Law, 50 per cent.

Students who fail in more than three papers, or who do not obtain at least Third Class Standing in the total marks of any University Examination, shall be required to again take the full work of the year at the regular examination.

In all cases, students who are entitled to Supplemental Examinations, and who fail to present themselves at the first regular Supplemental Examination thereafter, must, if they present themselves at a later date, comply with any changes which may have been made in the curriculum in the meantime.

These examinations shall be held in the University and at Brandon College, and also at such educational institutions in the Provinces of Saskatchewan, Alberta, and British Columbia as the Board of Studies may from time to time approve.

The following institutions are at present approved by this University:

Alberta College,
 Brandon College,
 The Columbian College,
 Vancouver College,
 Victoria College,
 Western Canada College.

(e) Conditions of Examination

Candidates for any Examination must, at least thirty days before the date of the Examination, make suitable application to the Registrar, from whom blank forms of application may be obtained. The required fee must accompany the application.

No Student in Arts who has registered as a Student for any University Examination with an affiliated college shall be entitled to present himself at any University Examination within the academic year in which he has so registered without the written consent and approval of the head or acting head of the College in which he is so registered.

No one shall be permitted to present himself as a non-collegiate Student at any University Examination in Arts above the Matriculation without giving notice to the Registrar at least six months before such University Examination, and without receiving permission from the Board of Studies to appear as a non-collegiate Student.

Every non-collegiate Candidate at any Examination shall, along with his application for examination, forward to the Registrar a Certificate from some clergyman or other trustworthy person, that the candidate is of good moral character.

All examination papers are three hour papers.

(f) Appeals

In all cases where students enter an appeal for the revision of their papers in connection with any examination, such revision shall be permitted on payment by the applicant of \$4.00 for the re-reading of one or two papers, and an additional fee of \$2.00 for each additional paper.

All appeals against the returns of the Examiners must be placed in the hands of the Registrar within three weeks after publication of the examination results in the public press, and Examiners shall be required to report the results of the revision of such papers within ten days after being notified thereof.

(g) Conditioned Students

Candidates for Matriculation into the Faculty of Arts, who have failed in not more than two subjects (and Candidates for Matriculation into the Faculty of Medicine, who may present Teachers' Certificates not covering Latin), and who have pre-

sented themselves *at the next ensuing examination* and have again failed, may as Conditioned Students proceed with their Course with the view of subsequently obtaining full Undergraduate Standing.

Candidates with Undergraduate Standing, who have failed in not more than two subjects at the First, the Second or the Third Year Examinations, and who have presented themselves *at the next ensuing examination* and have again failed, may as Conditioned Students proceed with their Course with the view of subsequently obtaining full standing in their year. Provided always that no Student be allowed to have more than three Conditions registered against him at any one time.

Such Conditions must be removed as follows:—

(a) Matriculation Conditions before the commencement of the Second Year.

(b) First Year Conditions before the commencement of the Third Year.

(c) Second Year Conditions before the commencement of the Fourth Year.

(h) Equivalent Examinations

1. The following Examinations shall be accepted *pro tanto* by the University, in so far as the subjects and standing are, to the satisfaction of the Board of Studies, the same as, or equivalent to, those required by the University—but candidates offering certificates of having passed such Examinations will be required to make good their standing by passing in such subject or subjects not covered by their certificates, as may, in the opinion of the Board, be necessary for the completion of the Examination for which such certificates are presented:

(a) Third Class Teachers' Certificate for Manitoba.

(b) Second and First Class Teachers' Examinations for Manitoba.

(c) Second and First Class Teachers' Examinations for Saskatchewan and Alberta.

(d) Second and First Class Teachers' Examinations and the Junior and Senior Leaving Examinations for Ontario.

2. (a) Third Class Certificates shall be accepted *pro tanto* for subjects of Part I. of the Matriculation Examination.

(b) Second Class and Junior Leaving Certificates shall be accepted *pro tanto* for subjects of any Matriculation Examination.

(c) First Class and Senior Leaving Certificates shall be accepted *pro tanto* for subjects of the First Year in Arts.

3. Provincial or Departmental Certificates for any other Provinces of the Dominion shall be granted such *pro tanto* standing as the Board of Studies may from time to time recommend.

4. Candidates presenting *pro tanto* certificates must attempt to pass at one time in all the subjects necessary to the completion of the entire Examination.

5. Holders of certificates of educational value, other than those above mentioned, shall receive such recognition as the Board of Studies may from time to time recommend.

6. Students of recognized Colleges, who are Matriculated in this University, may pursue their course of study in said College and may come up to the University examinations as students of said College.

(i) Admission *Ad Eundem Statum* and *Ad Eundem Gradum*

Members of any other University in His Majesty's Dominions, who may apply for admission to this University, are not required to take the Entrance Examination of the Faculty to which they belong, but may be admitted *ad eundem statum* or *ad eundem gradum*, on presentation of their credentials and payment of the required fee.

ATTENDANCE ON LECTURES AND PRACTICAL WORK

No Student shall be allowed to present himself for Examination in any subjects in which lectures are given by the University Professors and Lecturers, who does not present from the Faculty of Science, or from an affiliated College where such work is done in the College, a certificate of having attended 75 per cent. of the lectures delivered in each subject.

This regulation, however, shall not affect any non-collegiate candidate for examination, excepting in the case of the Special Course in Natural Science, and in Medicine.

No student shall be allowed to present himself for examination in science subjects or in mathematics unless he has satisfactorily carried out and recorded the minimum practical work in each subject decided upon by the Faculty of Science, subject to the approval of the Board of Studies; the scheme of practical work to be intimated at the beginning of each session. This regulation shall apply to all classes of students, whether of Arts, Engineering, or Medicine, doing practical work under the direction of the Science Faculty.

PRIZES AND SCHOLARSHIPS

The Prizes and Scholarships hereinafter mentioned are provided from the endowment fund presented to the University in accordance with the Will of the late Dr. A. K. Isbister.

Matriculation, Part I.

PRIZES shall be awarded to pupils of any School in the Province as follows:

(a) These prizes, to be called Isbister Prizes, shall be five in number, of the value of twenty dollars each, and shall be awarded on the aggregate of the marks of all papers on the fixed subjects of Part I. of the Matriculation Examination in Arts of the University of Manitoba.

One of these prizes shall be awarded to French-speaking students. In the event, however, of no French-speaking student qualifying for a prize, all five prizes may be awarded to English-speaking candidates.

(b) Any successful candidate for one of these prizes must send in to the Registrar of the University a certificate of his having been in attendance at a public or private school, not being an affiliated College, in the Province of Manitoba, for the greater part of the preceding school year.

SCHOLARSHIPS shall be awarded to students of the University as follows:

Matriculation, Part II.

(a) At Part II. of the MATRICULATION Examination, four scholarships of sixty dollars each shall be awarded on the Latin and Mathematical papers of the examination.

Two scholarships of forty dollars each shall be awarded to English-speaking students on English, and one scholarship of forty dollars to French-speaking students on French.

One scholarship of thirty dollars shall be awarded on Greek.

One scholarship of thirty dollars on the French and German papers of the course for English-speaking students of the examination.

The successful candidate for a scholarship in this examination must pass in each of the additional subjects required of him other than those in which he takes a scholarship in said examination, and must obtain 50 per cent. of the aggregate marks of his whole examination.

First Year, Arts

(b) At the Examination of the FIRST YEAR in Arts, four scholarships of sixty dollars each shall be awarded on the Latin and Mathematical papers of the examination.

Two scholarships of forty dollars each shall be awarded to English-speaking students on the papers in English, and one scholarship of forty dollars to French-speaking students on the papers in French.

One scholarship of forty dollars on the Greek papers of the examination.

One scholarship of forty dollars on the French papers of the course of English-speaking students of the examination.

One scholarship of forty dollars on the German papers of the course of English-speaking students of the examination.

One scholarship of forty dollars on the paper on Biology.

One prize of twenty dollars shall be awarded to English-speaking students, and one prize of twenty dollars to French-speaking students on the History paper of the examination.

One prize of twenty dollars on the papers in Icelandic.

The successful candidate for a scholarship in this examination must pass in each of the additional subjects required of him other than those in which he takes a scholarship in said examination, and must obtain 50 per cent. of the aggregate marks of his whole examination.

Second Year, Arts

(c) At the Examination of the SECOND YEAR in Arts, four scholarships of sixty dollars each shall be awarded to English-speaking students on the English, Philosophy, Latin and History papers of the Examination, and one scholarship of sixty dollars to French-speaking students on the French, Philosophy, Latin and History papers of the examination.

One scholarship of forty dollars shall be awarded on each of the following subjects of the examination:—

Greek, English, French (for English-speaking students), English (for French-speaking students), German, Mathematics, Chemistry.

One prize of twenty dollars on the papers in Icelandic.

The successful candidate for a scholarship in this Examination must pass in each of the additional subjects required of him other than those in which he takes a scholarship in said Examination, and must obtain 50 per cent. of the aggregate marks of his whole examination.

Third Year, Arts

(d) At the Examination of the THIRD YEAR in Arts, one scholarship of one hundred and fifty dollars and one of one hundred dollars shall be awarded on the papers of said Examination in each of the following courses: (1) Classics, (2) Mathematics, (3) Natural Science, (4) Philosophy (English), (5) Philosophy (Latin), (6) Modern Languages, (7) General B.A. Course. (In the General Course only the fixed subjects shall be taken into account.)

A Scholarship of thirty dollars shall be awarded in Hebrew of the Third Year.

Engineering

(e) At the Examination of the First Year of the Civil and Electrical Engineering Course (common) a scholarship of forty dollars shall be awarded.

At the Examination of the Second Year of the Civil and Electrical Engineering Course (common) a scholarship of forty dollars shall be awarded.

At the Examination of the Third Year in Civil Engineering, one scholarship of one hundred and fifty dollars and one of one hundred dollars shall be awarded.

At the Examination of the Third Year in Electrical Engineering, one scholarship of one hundred and fifty dollars and one of one hundred dollars shall be awarded.

Law

(f) At the Examination of the First Year of the LL.B. Course one scholarship of sixty dollars shall be awarded.

At the Examination of the Second Year of the LL.B. Course one scholarship of one hundred dollars and one of seventy-five dollars shall be awarded.

Medicine

(g) Scholarships shall be awarded at the examination of the First, Second, Third and Fourth Years of the course for the M.D. degree. In each of the four years of the course there shall be awarded two scholarships of eighty dollars.

CONDITIONS GOVERNING THE PAYMENT OF SCHOLARSHIPS

(a) On certification by the Chancellor and the Registrar or other person authorized by the Council, the several scholarships shall be paid by the Bursar of the University to the Bursar or Treasurer of each College, in moieties, on the second Wednesday of December and May, except in the following cases:

The mode of payment of the scholarships awarded at the Second Year Examination in Law, at the Third Year Examinations in Arts and Engineering, and at the Fourth Year Examination in Medicine, shall be as follows: One moiety of the scholarship shall be paid in December of the Final Year and the second moiety on the third Thursday of May of the Final Year; but the latter portion shall not be paid unless the holder of the scholarship obtain first-class in his Final Examination.

(b) In the case of undergraduates the University requires before payment of the first moiety of the scholarships a certificate from the Head or Acting Head of the College that the student's attendance has been satisfactory up to the 8th day of December, and before the payment of the second moiety a similar certificate that the student's attendance has been satisfactory from January up to the beginning of May. And it is declared that the attendance at the College to be required of a student shall be *actual attendance for the full term of such college*, except in so far as non-attendance for a limited period by any particular student, may be excused by the college authorities on the ground of ill-health or other proper reasons.

Should the conditions in this section as to certification of a scholarship not be fulfilled during the two years immediately following the date of the taking of the scholarship, the scholarship shall lapse.

(c) A student shall not be qualified to hold a scholarship unless he is placed in the first-class in the aggregate of the subjects for which the scholarship is given, and unless he has passed in all the subjects required.

(d) The values stated for the scholarships are the maximum values which the scholarships shall not exceed. If the funds do not allow of the scholarships being of such maximum value, then they shall be proportionally of such value as the funds will allow.

(e) No student shall hold more than one scholarship. If a student succeeds in gaining more than one scholarship in any year, he will be allowed to choose which one he will take, and his name will be entered upon the list as having gained the other, though not entitled to any of the funds; and such other scholarship shall be granted to the one ranking next to him.

TRAVELLING SCHOLARSHIP

The sum of six hundred dollars will be given annually for the maintenance of a Travelling Scholarship, to be awarded under the following conditions:—

1. The object of the Travelling Scholarship shall be to assist students who have completed their Final Year in the University to pursue the special line of studies which they have selected, at some other University or seat of learning.

2. No student shall hold a Travelling Scholarship for a longer period than two years; and no student who has once held such scholarship shall be eligible for a second time.

3. Those eligible to compete for the scholarship shall be students who have graduated not more than twelve months previously, at the regular spring examination, in one of the special courses or in the course in Medicine or Engineering.

4. One Travelling Scholarship shall be offered for competition in every alternate year, or oftener if a scholarship be vacant; and the course in which it is offered shall be decided by rotation in the following order:—The special course in Classics, the special course in Mathematics, the special course in Modern Languages, the special course in English Philoso-

phy, the special course in Latin Philosophy, the special course in Science, the course in Medicine, the course in Engineering. The course in which it is proposed to award it shall be announced in the Calendar of the year previous.

5. The scholarship shall be awarded to the student obtaining the highest marks at a special examination in the subjects of the selected course, the date and place of holding which shall be announced in the Calendar of the year previous. Provided always that the scholarship shall not be awarded to any student who shall not have (a) obtained first class standing at the special examination, and (b) obtained first class standing and have passed in all subjects of his final examination. If these conditions be not satisfied the scholarship may, if the Board of Studies deem it advisable, be offered under similar conditions in the subjects of the course next in rotation.

6. The place at which the successful student shall pursue his studies shall be selected by the student, subject to the approval of the Board of Studies.

7. The scholarship shall be of the yearly value of \$600, and the amount shall be paid each year in two moieties; provided that the second moiety in each year shall not be paid until the student shall have spent at least three months in studying at the institution selected, and shall have produced a certificate of his having made satisfactory progress from the authorities of the institution.

The Special Scholarship Examination shall be held each year in May, beginning on the opening day of the Matriculation Examination. Applications for this examination shall be forwarded to the Registrar thirty days in advance.

1909

The scholarship will be awarded in this year in the Department of Classics. The examination will consist of the following six papers:—

1. Greek Prose.
2. Latin Prose.
3. Greek Sight Translation.
4. Latin Sight Translation.
5. Latin and Greek Grammar.
6. Roman and Greek History.

1911 (or earlier if the scholarship be vacant).

The scholarship will be awarded in this year in the Department of Mathematics. The examination will consist of the following papers:—

1. Synthetic Geometry (Plane and Solid).
 2. Analytical Geometry (Plane and Solid).
 3. Higher Algebra (including Theory of Equations).
 4. Trigonometry (Plane and Spherical).
 5. Infinitesimal Calculus and Differential Equations.
 6. Statics and Particle Dynamics.
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THE RHODES' SCHOLARSHIP

By the Will of the late Hon. Cecil Rhodes a Scholarship of the value of £300 yearly, tenable at any College in the University of Oxford for three consecutive academical years, has been allotted to the Province of Manitoba.

Nominations to the Scholarship shall be made by a Committee of five, to be named by the University of Manitoba.

Candidates for scholarships should, during the month of January, notify the Committee of Selection of their intention to present themselves for examination. The decision of the Committee of Selection shall be final as regards eligibility.

In order to be eligible for nomination to this Scholarship, candidates:

- (a) Must be British subjects;
- (b) Must have spent four years in Manitoba Educational Institutions, two at least of which must have been as registered Undergraduates of the University of Manitoba.
- (c) Must not be less than nineteen nor more than twenty-five years of age at the time of writing, and unmarried.

Prior to election a qualifying examination will be held. This examination is not competitive, but is intended to give assurance that all candidates are fully qualified to enter on a course of study at Oxford University.

It will therefore be based on the requirements for Responsions—the first public examination exacted by the University from each candidate for a degree.

The Rhodes Scholars will be selected from candidates who have successfully passed this preliminary examination.

The requirements of the Responsions examination, as stated in the Statutes of the University of Oxford, are as follows:

Candidates must offer the following:—

(1) Arithmetic—the whole.

(2) *Either* Algebra.

Addition, Subtraction, Multiplication, Division, Greatest Common Measure, Least Common Multiple, Fractions, Extraction of Square Root, Simple Equations containing one or two unknown quantities, and problems producing such equations.

Or, the Elements of Geometry.

Elementary Questions, including propositions enunciated by Euclid, and easy deductions therefrom, will be set on the subject-matter contained in the following portions of Euclid's Elements, viz.:—

- Book I. The whole, excluding propositions 7, 16, 17, 21.
 Book II. The whole, excluding proposition 8.
 Book III. The whole, excluding propositions 2, 4 to 10, 13, 23, 24, 26 to 29.

Any method of proof will be accepted which shows clearness and accuracy in geometrical reasoning.

So far as possible, Candidates should aim at making the proof of any proposition complete in itself.

In the case of propositions 1 to 7, 9, 10 of Book II., algebraical proofs will be allowed.

(3) Greek and Latin Grammar.

(4) Translation from English into Latin prose.

(5) Greek and Latin authors.

Candidates must offer two books, one Greek and one Latin or Unseen Translation. The following portions of the under-mentioned authors will be accepted:—

DEMOSTHENES: De Corona.

EURIPIDES: Any two of the following plays: Hecuba, Medea, Alcestis, Bacchæ.

HOMER: (1) Iliad 1—5, or 2—6; or (2) Odyssey 1—5, or 2—6.

PLATO: Apology and Crito.

SOPHOCLES: Antigone and Ajax.

XENOPHON: Anabasis 1—4, or 2—5.

CÆSAR: De Bello Gallico, 1—4.

CICERO: (1) the first two Philippic Orations; or (2) the first three Catiline orations, and In Verrem, Act I.; or (3) the Orations Pro Murena and Pro Lege Manilia; or (4) the treatises De Senectute and De Amicitia.

HORACE: (1) Odes 1—4; or (2) Satires; or (3) Epistles.

JOVY: Books V. and VI.

VERGIL: (1) the *Bucolics*, with Books 1—3 of the *Æneid*; or (2) the *Georgics*; or (3) the *Æneid*, Books 1—5, or 2—6.

The texts used in setting the Examination papers will be those of the Series of Oxford Classical Texts, so far as these have been published by the Oxford University Press.

Papers covering this range of study will be prepared by examiners appointed by the Trustees, and will be sent to each centre, where, at a date publicly announced, the examination will be held under proper supervision, and the papers returned to the examiners.

A list of those who have successfully passed this test will as soon as possible be furnished the committee of selection, and from this list the committee will proceed to elect the Scholars.

The committee will also be asked to furnish to the Trustees as full a statement as possible of the school and college career of each elected Scholar, with the special grounds of his appointment, together with suggestions, if desired, as to the course of study for which he is best fitted.

Any inquiries about Oxford, its colleges and the courses of study there, should be addressed to F. J. Wylie, Esq., the Oxford agent of the Rhodes Trustees.

Copies of Oxford Responson papers for past years can be obtained from the Copp Clark Company, Toronto. The Student's Handbook of Oxford can be ordered at the same address. It gives full information about the examinations of the University, subject to changes made since the last edition was issued.

"Oxford As It Is," a small pamphlet prepared by Mr. Louis Dyer, of Harvard and Balliol Colleges, for the use of American candidates, gives all essential information in a condensed form. It can also be ordered from the Copp Clark Company, Toronto.

"Oxford and its Colleges," written by Mr. J. Wells, of Wadham College, and "Oxford and Oxford Life," edited by

the same gentleman, may be recommended for those who wish to gain fuller information about the University and its Colleges.

Extracts from the Will of the Right Hon. Cecil John Rhodes:—

My desire being that the students who shall be elected to the Scholarships shall not be merely bookworms, I direct that in the election of a student to a scholarship regard shall be had to (1) his literary and scholastic attainments; (2) his fondness of and success in manly outdoor sports, such as cricket, football and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for the protection of the weak, kindness, unselfishness and fellowship; and (4) his exhibition during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates; for those latter attributes will be likely in after life to guide him to esteem the performance of public duties as his highest aim. As mere suggestions for the guidance of those who will have the choice of students for the scholarships I record that (1) my ideal qualified student would combine these four qualifications in the proportions of three-tenths for the first, two-tenths for the second, three-tenths for the third, and two-tenths for the fourth qualifications, so that according to my ideas if the maximum number of marks for any Scholarship were 200 they would be apportioned as follows: 60 to each of the first and third qualifications and 40 to each of the second and fourth qualifications; (2) the marks of the several qualifications would be awarded independently as follows (that is to say) the marks for the first qualification by examination, for the second and third qualification respectively by ballot by the fellow-students of the candidates, and for the fourth qualification by the head master of the candidate's school; and (3) the results of the awards (that is to say the marks obtained by each candidate for each qualification) would be sent as soon as possible for consideration to the trustees or to some person or persons appointed to receive the same and the person or persons so appointed would ascertain by averaging the marks in blocks of 20 marks each of all candidates the best ideal qualified students.

No student shall be qualified or disqualified for election to a scholarship on account of his race or religious opinions. The

election to scholarships shall be by the trustees after such (if any) consultation as they shall think fit with the minister having the control of education in such colony, province, state or territory.

A qualified student who has been elected as aforesaid shall within six calendar months after his election or as soon thereafter as he can be admitted into residence, or within such extended time as my trustees shall allow, commence residence as an undergraduate at some college in the University of Oxford.

The Scholarships shall be payable to him from the time when he shall commence such residence.

The University of Manitoba has been admitted by the University of Oxford to the privileges of the Statute on Colonial and Indian Universities.

This Statute relieves students of certain standing from the requirements of Responsions, providing a sufficient knowledge of the Greek language has been shown. It also admits to Junior or Senior status, as follows:—

(a) Any member of a University so admitted, who shall have pursued a course of study prescribed by it and extending over two years, and who shall have passed all the examinations incident to the course, may be admitted to the status and privileges of a Junior Colonial or Indian Student.

(b) Any member of a University so admitted, who shall have pursued a course of study prescribed by it and extending over three full years, and who shall have taken Honours in the final examination incident to the course, may be admitted to the status and privileges of a Senior Colonial or Indian Student.

MEDALS

(a) The Governor-General's Medals

1. The Governor-General's *Silver* and *Bronze Medals*, the gift of His Excellency, Earl Grey, shall be awarded to the different Courses in Arts at the Final Examination in the following order, and shall take the place of the University Silver and Bronze Medals in the Course in which they are awarded:

1909.....	Classics.
1910.....	Mathematics.
1911.....	Modern Languages.
1912.....	Natural Science.
1913.....	General B.A.
1914.....	Philosophy (English).
1915.....	Philosophy (Latin).

(b) University Medals

1. A *Silver Medal* shall be awarded annually to the Student obtaining the highest First-Class standing in each Course in Arts at the Final Examination (in the case of the General Course fixed subjects only shall be taken into account), and to the Student obtaining the highest First-Class standing in the Final Examination in the LL.B. Course, and to the Student obtaining the highest First-Class standing in the Final Year Examination in the Course in Medicine.

2. A *Bronze Medal* shall be awarded annually to the Student standing second in order of merit in each course in Arts at the Final Examination, provided his standing also be First-Class, and to the Student standing second in order of merit in the Final Examination of the LL.B. Course, provided his standing be First-Class, and to the student standing second in order of merit in the Final Year Examination in the Course in Medicine, provided his standing be First-Class.

3. A *Gold Medal*, presented by Dr. J. H. O'Donnell, shall be awarded annually to the Student obtaining the highest First-Class Standing in Obstetrics and Diseases of Children in the Final Year in Medicine, provided his standing in other respects be satisfactory.

4. A *Gold Medal*, presented by Dr. J. N. Hutchinson, shall be awarded annually to the Student obtaining the highest First-Class standing on the aggregate marks of the full course in Medicine.

DEGREES IN ABSENTIA

No degree will be conferred *in absentia* except when good reasons for absence have been submitted to, and approved of, by the Board of Studies, or the Council, and an additional fee of ten dollars will be exacted in each case where permission is granted.

DEGREES GRADED

All Diplomas granted by the University are graded as follows:—*rite*, indicating standing between the pass mark and 67 per cent.; *cum laude*, standing between 66 per cent. and 80 per cent.; and *magna cum laude*, standing above 79 per cent.

UNIVERSITY DRESS

No Undergraduate student shall present himself at any University Examination, or at any meeting of the University, unless he be clothed in the Academic dress peculiar to his College.

The materials and colors prescribed by the Council for the Hoods to be worn by Graduates of the University in the various Faculties, are as follows:

B.A.—Black stuff, edged with white rabbit-skin, with a braid of green silk.

M.A.—Black corded silk, lined with scarlet corded silk.

M.D.—Black cashmere, lined with purple corded silk.

M.D., C.M.—Black cashmere, lined with purple corded silk and edged with violet silk.

L.L.B.—Black silk stuff, lined with white silk, edged with narrow white rabbit skin, and narrow green silk braid along the border.

The University insists on all hoods being made after the pattern of hoods made by Harcourt & Co., Toronto.

FEES

The following fees are required, and must be paid to the Registrar in advance. (For examination, for the M.A. and for *Ad Eundem* Degrees, at time of application; for all other Degrees, when applying for Final Examination.)

Matriculation

For Registration	\$ 2 00
For Matriculation (Part I.)	3 00
For Matriculation (Part II.)	4 00
For Matriculation, Parts I. and II.	6 00
For Matriculation, or Registration of Matriculation in Pharmacy	5 00

Examinations above Matriculation

For each Regular Examination.....	\$ 8 00
For a Regular Examination by Subjects—each subject	2 00
For each Supplemental Examination—any number of subjects	8 00

Tuition

For Students of Natural Science Course	\$15 00
For Students of the Mathematical Course....	30 00
For Students in other courses taking University lectures, each course	8 00
For Students in other courses taking University lectures, each course with practical work	10 00
For Engineering Students—	
First Year	\$55 00
Second Year	65 00
Third Year	80 00
Fourth Year	80 00

Caution Money

The tuition fee of each special student to be determined by the Registrar, in consultation with the Professor in whose department the student receives instruction.

Students in Engineering, Special Science, Special Mathematics, and the First Year of Medicine, will be required to deposit with the Registrar the sum of \$5.00. Out of this amount all breakages will be made good. The balance will be refunded at the close of the term.

Ad Eundem

For Admission <i>Ad Eundem Statum</i>	5 00
For Admission <i>Ad Eundem Gradum</i>	10 00

Degrees

For the Degree of B.A.	10 00
For the Degree of M.A. (Examination of Thesis, \$10.00; Degree, \$10.00)	20 00
For the Degree of LL.B.	10 00
For the Degree of Phm. B.	10 00
For the Degree of M.D.	10 00
For the Degree of C.M.	15 00
For Examination for License to Practice Medicine	15 00
For the Degree of B.C.E.	10 00
For the Degree of B.E.E.	10 00
For the Degree of M.C.E.	20 00
For the Degree of M.E.E.	20 00
For the Degree of B.S.A.	10 00
For the conferring of any Degree <i>in absentia</i> (for which the consent of the Board of Studies or the University Council must be secured), an additional fee of	10 00

Appeals

For the re-reading of one or two papers.	\$ 4 00
Each additional paper	2 00

Special

For a Certificate of Standing	\$ 2 00
For a Statement of Marks	1 00
For a Complete Bound Set of Examination Papers	.50
Any Student, whether attending Lectures in the University Building or not, who ne- glects to register, each year of his course, with the Registrar of the Uni- versity, within two weeks after entering College, will be liable to a fine of	2 00

DEGREES GRANTED

Oct. 10th, 1907.

B.A.

Grant, Alfred

M.D.

Hart, William Malloch
 Mathers, Isaac N.
 McMillan, James Currie
 Stalker, Frederick D.

Dec. 12th, 1907

B.A.

Longley, Robert S.

Ad Eundem

Harvey, Athelstan George, University of Michigan.
 McKenzie, Colin H., B.A., University of Edinburgh.
 Mussieux, Antoine-Jacques, B.A., University of France.
 Petersen, Hans E. S., B.A., Royal Frederick University.
 Brum, R. L. M., LL.B., University of France.

Jan. 14th, 1908.

Ad Eundem

Brown, Charles S., B.A., Harvard University.
 Dennistoun, R. M., B.A., Queen's University.

April 2nd, 1908.

Ad Eundem

Brune, Clarence Marion, B.A., Harvard University.

May 15th, 1908.

B.A.

Agnew, James Cecil Wentworth
Arthur, Stuart Fleming
Auger, J. Albert
Bean, John Arthur
Beeston, Cyril Gainsborough
Campbell, William Ewart Gladstone
Cushing, Richard Sydney
Daly, Harold Wilberforce
Dickson, John George
Durkin, Douglas Leader
Frith, Ernest
Graham, Frances B.
Grant, Alexander Nelson
Harold, Freda Sophia
Henry, Howard Robert Lawrence
Hibbard, Ernest
Jopp, William Edge
Kern, Daniel Shaver
Laronde, Louis
Matheson, Robert Nichol
McCauley, Maud Muriel
McCullough, Arthur James
McKinnon, Frank Lorne
McMillan, Norman A.
Moore, Thomas Kells
Neff, Garnett Cedric
Paterson, Hamilton Savigny
Shipley, John Wesley
Sigmar, Haroldur
Sirett, Ebenezer Tom
Small, Thos. James
Smith, John Adam
Speers, George Cecil
Stacey, Helen Emma
Sutherland, Alexander John
Sutherland, Fred George
Telford, Rubelle Florence
Thompson, Alberta Alexandra Cleland
Urie, James Hugh
Weidman, Roy Walter
Whitman, Herman Alton
Winton, Hugh

LL.B.

Brandon, Robert James
 Campbell, Archibald
 Doyle, Arthur
 Flanders, Sidney Reginald
 Hartnev, Russell
 Hugg, Robert Wallace
 Johnston, Arthur Eaton, B.A.
 Kennedy, William Walter
 Leighton, Arthur
 MacLean, Donald Robert Campbell
 Robertson, John Ernest
 Thomas, Edgar James, B.A.
 Willson, Norman Currie

M.D.

Cameron, Alexander Kippen
 Creighton, William
 French, Edwin Thomas
 Gershaw, William Fred.
 Gorrell, James Alfred, B.A.
 Grant, Percy Bissell, B.A.
 Humphries, Manfred I.
 Long, Alfred George
 MacIntosh, Cyrus Ross
 McDermid, Howard John
 McFarlen, Henry Arthur, B.A.
 McIvor, Norman Kitson
 McKay, George Hartford
 Nay, John
 Rice, Richard Oscar Tobias
 Sahlmark, George William, B.A.
 Smith, Andrew Harvey Cameron
 Stirling, Joseph Townsend
 Swallow, Gordon Ernest
 Sweet, Aquila George
 Volume, David Alexander, B.A.
 Wallace, Albert Henderson
 Welsh, William Thompson Oscar
 Wheaton, Charles Jefferson, B.A.
 Williams, David R.

C.M.

Gershaw, William Fred
 Gorrell, James Alfred, B.A.
 Grant, Percy Bissell, B.A.
 Nay, John
 Welsh, William Thompson Oscar

Phm. B.

Bletcher, H. E.

M.A.

McIvor, Daniel, B.A., University of
 Manitoba, 1905. Thesis: "Work
 and the Working Men of Win-
 niipeg."

Peart, Malcolm, B.A., University of
 Manitoba, 1904. Thesis: "Ethics
 of the Homeric Age."

Stevenson, James Wm., B.A., Uni-
 versity of Manitoba, 1905.
 Thesis: "The Problem of Popula-
 tion."

AD EUNDEM

Hansford, Jeffrey Ellery, LL.B.,
 University of Toronto.

Feb. 11th, 1909.

M.D.

Baynham, George

Ad Eundem

Swartzell, M. F. F., B.A., George
 Washington University.

STUDENTS, 1908—1909

ARTS

(Collegiate)

Fourth Year

(N.B.—Unless otherwise specified, the post office is in Manitoba.)

Asselstine, Walter Morley	Winnipeg.
Baribeau, Albert	Kenora, Ont.
Bayley, William Dowell	Winnipeg.
Beaudry, Edmond	St. Boniface.
Betournay, Louis	St. Boniface.
Bissett, Maude Adeline	Rosser.
Bleau, Paulin	St. Boniface.
Brown, Lillian Rogers	Winnipeg.
Burnett, Edgar A.	Nanton, Alta.
Cameron, John Duncan	Rolling River.
Carmichael, James Malcolm	Winnipeg.
Christopherson, John	Grund.
Cousins, Alford Edmund ..	Winnipeg.
Decosse, Phoenix ..	Somerset.
Dixon, Howard Chancellor	Maple Creek, Sask.
Duncan, John Wallace Stirling.....	Summerside, P.E.I.
Erskine, Lila Kate	Winnipeg.
Fisher, Flora Campbell	Winnipeg.
Fisher, Nicholas Rigby	Winnipeg.
Forster, Frank Graham	Hannah, N. Dak.
FydeU, Fred Johnstone	Austin.
Galloway, John Hilliard	Estevan, Sask.
Gannon, John Edmund Sidney ..	Winnipeg.
Gowanlock, Mabel Edith	Winnipeg.
Graham, Grace Wilson	Winnipeg.
Guild, Charles Kelly	Kennay.
Guild, William Forbes	Kennay.
Henderson, John Wm. Argue	Milberta, Ont.
Hogg, Robert Maulson	Whitewood, Sask.
Honeyman, Egbert Douglas	Fairfax.
Jackson, Jean Stewart	Hartnev.
Jenkins, Roy Benjamin Stockton..	Winnipeg.
Logan, John William Gow	Lauder.
Mather, J. Fred	Vancouver, B.C.

Matheson, Adam Stuart	Owen Sound, Ont.
Mitchell, John Williams	Winnipeg.
Murray, Percy Norman	Port Arthur, Ont.
McCallum, Duncan	Mundare, Alta.
McCharles, Frank Daniel	Winnipeg.
McIvor, William John	Winnipeg.
Nicholson, Helen Audria	Winnipeg.
Picard, Joseph	Winnipeg.
Prendergast, James	St. Boniface.
Prince, Rosario Joseph Antonio	St. Boniface.
Ram, Humphrey Scott	Winnipeg.
Ridgeway, Robert Weston	Rosser.
Robson, Jean I.	Regina, Sask.
Rose, Arthur Osborne	Minnedosa.
Ross, Helen Elizabeth	Rapid City.
Seale, Constance Irene	Winnipeg.
Stevens, Blanche Elizabeth	Winnipeg.
Thomas, Bessie M.	Deloraine.
Thomson, Andrew Rutherford	Roden.
Trudel, Jean Joseph	Ottawa, Ont.
Waite, James	Oak Lake.
Wagh, Ernest A.	Winnipeg.
Woodsworth, Edith Annie	Winnipeg.

Third Year

Adamson, James Douglas	Winnipeg.
Andrews, Alfred Herbert John.....	Winnipeg.
Atkinson, Railton Edward.....	Winnipeg.
Baragar, Charles Arthur	Elm Creek.
Bastin, May	Winnipeg.
Beaubien, Joseph Thomas	Winnipeg.
Beliveau, Joseph	St. Boniface.
Bell, Morley L.	Baldur.
Bjarnason, Stefan Agust	Mary Hill.
Bompas, John George G.	Wolseley, Sask.
Broad, Eva May	Winnipeg.
Cawley, Herbert	Winnipeg.
Charette, Guillaume Joseph	La Rochelle.
Cole, Richard	Melita.
Combe, Charles Victor	Winnipeg.
Craig, John S.	Oakville.
Culver, Albert Ferguson	Winnipeg.
Donald, Robert Fulton Barbour.....	Moosomin, Sask.

Drysdale, Gladstone Ewart	Neepawa.
Durnin, Edward Howard	Nutana, Sask.
Elliott, Alan Bell	Winnipeg.
Elliott, Geo. Henry	Winnipeg.
Fergusson, Robert George	Yorkton, Sask.
Fillmore, John Eldon	Winnipeg.
Fulford, Albert Gilmour	Mather.
Halldorson, Salome	Lundar.
Heywood, Percy	Winnipeg.
Howarth, David Rusk Lowrie	Winnipeg.
Jackson, Robert Frederick	Souris.
Jackson, Thorstena Sirgridin	Fishing Lake, Sask.
Johnson, Skuli	Winnipeg.
Kennedy, George Stanley	Whitewood, Sask.
Kennedy, Harvey Everett	Winnipeg.
Lambert, Alexander A.	St. Boniface.
Lamont, John S.	Charlottetown, P.E.I.
Lindsay, Gordon C.	Winnipeg.
Lockhart, Emanuel	Spring Valley, P.E.I.
Long, Bessie Dundas	Winnipeg.
Mann, William Lawson	North Battleford, Sask.
Moir, James Hilton	Winnipeg.
Monette, Joseph Antonin	St. Agathe.
Montgomery, Kate Clare	Prince Albert, Sask.
Muckle, Anne Hollins	Clandeboye.
Murray, William Anderson	Stonewall.
McCulloch, A. J.	Enfield, Ont.
McFetridge, Wm. Alexander	Souris.
MacKinnon, Malcolm Edey	Portage la Prairie.
McLeod, James Dudley	Winnipeg.
Neelin, Thomas	Munster, Ont.
Olson, Baldur	Winnipeg.
Philip, Douglass C.	Winnipeg.
Pybus, George Garnett	Winnipeg.
Ritchie, John Boyle	Port Arthur, Ont.
Schultz, Otto Reginald	Baldur.
Tait, Helen Jean	Winnipeg.
Teskey, Marquis Harold	Winnipeg.
Thomson, Frank Alexander	Cartwright.
Thorson, Joseph Thorarin	Winnipeg.
Ward, Gladys Irene	Winnipeg.
Warner, Albert H.	Winnipeg.
Warner, Edwin Lloyd	Winnipeg.
Watson, Helen Innes	Winnipeg.

Wells, George Anderson	Winnipeg.
Whiting, George Alexander	Moosomin, Sask.

Second Year

Adamson, Alan B.	Winnipeg.
Anderson, Arthur D.	Winnipeg.
Argue, Robert Fletcher	Stittsville, Ont.
Beaupré, Jean Baptiste	St. Boniface.
Belliveau, J. Arthur	Winnipeg.
Berry, Lester Howard	Winnipeg.
Bertrand, Jacques	St. Boniface.
Blay, Cecil Augustine	Winnipeg.
Bonneau, S. Marcien	St. Vital.
Bury, George Aylen Ernest	Winnipeg.
Cameron, Charles Frederick	Winnipeg.
Campbell, John Fletcher	Louise Bridge P.O.
Chambers, Samuel David	Winnipeg.
Clyde, John Baxter	Winnipeg.
Collins, Emmet F.	Broadview, Sask.
Crepeau, John Baptiste	Haverly, Wright Co., Minn.
Denby, Ella	Winnipeg.
Dixon, Percy John	Purves, Sask.
Doidge, Walter Alexander	Winnipeg.
Donnelly, Henry Bingham	Winnipeg.
Dutton, John Brockway	Sintaluta, Sask.
Dynes, Winnifred	Winnipeg.
Elliott, Albert Leslie	Maymont, Sask.
Evans, Albert Ethelbert Avlward	Winnipeg.
Evans, Allen Roy	Winnipeg.
Fahrni, Roy	Gladstone.
Fox, Vera Margarita	Winnipeg.
Gardiner, James Garfield	Kirkton, Ont.
Gelly, George Maurice	Winnipeg.
Haig, Gordon Stuart	Alexander.
Jenkins, Llewellyn Arthur	Winnipeg.
Johnson, Baldur	Minnir, Sask.
Kenny, Herbert Franklin	Winnipeg.
Kerr, Stanley Harold	Franklin.
Lamont, Joseph Laurie	Treherne.
Laurin, Alphonse	Dufresne.

Lukacs, Joseph	Esterhazy, Sask.
Lindal, Walter	Holar, Sask.
Matheson, Edgar Hugh Ernest	Winnipeg.
Matheson, Norah Evelyn	Winnipeg.
Magowan, Robert	Winnipeg.
Miller, Charles Samuel	Winnipeg.
Morgan, William Henry	Stonewall.
Morrison, Wesley	Greufell, Sask.
Muir, Myrtle	Portage la Prairie.
McBride, Andrew	Winnipeg.
McCool, Charles Wesley	Burriss, Ont.
McFarlane, Margaret Ethel	Winnipeg.
McGill, Leonard Sydney	Neepawa.
McIntyre, Gladys Isabelle	Winnipeg.
McIntyre, Neil Albert	Winnipeg.
McKnight, Almyra	Winnipeg.
McLeneghan, Myrtle	Portage la Prairie.
McManus, Joseph L.	Winnipeg.
McPherson, Ronald A.	St. Andrews, Sask.
McTeigue, Gerald	Port Arthur, Ont.
Neville, Allen Irwin	Goodlands.
Noble, William Maurice	Glenboro.
Palmer, John Francis	Oak River.
Patterson, Douglas Richard ..	Toronto, Ont.
Paul, Morley Perry	Govan, Sask.
Ramsay, Amy Maude	Waskada.
Reardon, Leo Francis	St. Boniface.
Reith, James Wilbert	Winnipeg.
Renton, Frank James	Winnipeg.
Rutherford, Gerald Stuart	Winnipeg.
Schnereck, Thos. J.	Winnipeg.
Shearer, William Charles	Neepawa.
Sibley, John C.	Brier Crest.
Siddall, Eldon Rooklidge	Lucknow, Ont.
Singieton, Wilfred Burnett ..	Winnipeg.
Sissons, Melrose	Portage la Prairie.
Thompson, Jean Mathaway ..	Winnipeg.
Walker, Ethel Isabel	Winnipeg.
Webster, Margaret	Portage la Prairie.
Wilkins, James	London, Ont.
Williams, Albert James	Winnipeg.

First Year

Abbott, William Frederick	Winnipeg.
Abrahamson, Simon	Winnipeg.
Adair, Kathleen Douglas	Winnipeg.
Adams, Irene Sutcliffe	Winnipeg.
Agar, Georgina	Methven.
Allan, James W.	Winnipeg.
Andrew, Mary Agnes	Winnipeg.
Anderson, John Benjamin E.	Winnipeg.
Baird, Andrew Stuart	Winnipeg.
Beauchamp, Marguerite Christine	South Qu'Appelle, Sask.
Beaupre, Marcien	St. Boniface.
Bell, Elizabeth	Macgregor.
Bell, Ezra	Baldur.
Bergmann, Magnea	Winnipeg.
Bissett, Chester R. G.	Rosser.
Black, Marion Isabel	Winnipeg.
Bloomer, Edith M.	Basswood.
Bohémier, Charles Adolphe	St. Norbert.
Bradley, Gertrude Olive	Janesville, Wis., U.S.A.
Briggs, Mary A.	Winnipeg.
Broad, Lloyd L.	Winnipeg.
Brown, Edith E.	Winnipeg.
Brownlee, Thomas Irwin	High View, Sask.
Buchanan, Ruth M.	Winnipeg.
Busche, William Fetrim	Winnipeg.
Cairns, Amaret	Poplar Grove.
Cameron, Catherine Jane	Shoal Lake.
Cameron, Una Beatrice	Westbourne.
Campbell, Neil Stanley	Winnipeg.
Campbell, W. A.	Winnipeg.
Campbell, William Russell	Winnipeg.
Caswell, Walter Buchanan	Saskatoon, Sask.
Chapman, Frederick Colbourne	Winnipeg.
Copeland, Chas. Edgar	Winnipeg.
Currie, John E.	Wavy Bank.
D'Arey, Norman Joyce	Winnipeg.
Désorcy, Emile	Lorette.
Dolmage, Victor	Souris.
Dorey, George	Winnipeg.
Ducker Stella May	Winnipeg.
Eaton, Harris	Winnipeg.

Ewert, Alfred	Gretna.
Ferland, Joseph Avila	Lorette.
Gauthier, Charles Henri	St. Agathe.
Gauthier, Conrad	St. Agathe.
German, Lionel Vaughan	Winnipeg.
Gillespie, Alma L.	Winnipeg.
Graham, Alma	Winnipeg.
Graham, Eleanor D.	Roland.
Grain, Gerald Orton	Selkirk.
Grant, Alfred	Winnipeg.
Green, Eva May	Kenora, Ont.
Guillault, Victor	St. Boniface.
Hample, Carl S.	Winnipeg.
Haney, Clifford Ivan	Winnipeg.
Hjalmarson, Bjorn	Glenboro.
Hodgins, Alfred	Winnipeg.
Hoodspith, Harry Robert	Winnipeg.
Johnson, Hallgrimur	Winnipeg.
Jonasson, Jonas Th.	Baldur.
Jonsson, Olafia J.	Radway.
Kane, Paul	Rathwell.
Kelly, Mildred Helen	Winnipeg.
Kerr, John Lindsay	Franklin.
Killam, George Thoma	Mt. Middle, N.B.
Landry, Joseph Napoléon	St. Norbert.
Logan, Harold Thomas	Peachland, B.C.
Longheed, M. S.	Winnipeg.
Malcolm, James Lyall	Dauphin.
Middal, Ethel Lara	Winnipeg.
Milliken, Robert Handyside	Reston.
Milner, Roy Wilfred	Winnipeg.
Milroy, Reginald Charles	Winnipeg.
Munroe, Ina Fraser	Kildonan.
Murdoch, Sophie May	Winnipeg.
Murray, Charles	Graysville.
Murray, George Wishart	Port Arthur, Ont.
McCaw, Mina Pearl	Winnipeg.
McClelland, Jas. C.	Winnipeg.
McKay, Joseph Fortescue	Isle á la Crosse, Sask.
McKenzie, Rod. D.	Stephenfield.
McKillop, John	Winnipeg.
McLeod, Jean Florence	Winnipeg.
McPherson, David Ewen	Winnipeg.

McPherson, M. Winona	Winnipeg.
McRae, Duncan Farquhar	Carlyle, Sask.
McRobbie, James	Winnipeg.
Naismith, William	Condie, Sask.
Nason, William	Winnipeg.
Neve, Edmund Burgess	Winnipeg.
Orr, Marian Evelyn	Winnipeg.
Paterson, Donald Hugh	Winnipeg.
Paulson, Gordon A.	Winnipeg.
Pearson, Evelyn M.	Winnipeg.
Pearson, Harold John Cory	Winnipeg.
Richardson, Blaine	Plum Coulee.
Roblin, Charles D.	Winnipeg.
Rose, Harold E. A.	Winnipeg.
Rutherford, Gerald S.	Winnipeg.
Savage, James	Winnipeg.
Shinbane, Abie Mark	Winnipeg.
Simpson, Fred Irwin	Virden.
Sinclair, Katie Omand	Winnipeg.
Smith, Clarkson F.	Rosser.
Sprado, Maude	Winnipeg.
St. Pierre, Arthur	Ile des Cherres.
Surtees, Benjamin	Winnipeg.
Thomson, Lily Gordon	Winnipeg.
Thorlaksson, Steingrimur	Selkirk.
Warkentin, T. J.	Winkler.
Weir, Laura Adelaide	Winnipeg.
Whyte, Marion	Winnipeg.
Wilton, Winnifred Marie	Winnipeg.
Winkler, Howard Waldemar	Morden.

ARTS

(Non-Collegiate)

Fourth Year

Connon, George	Cypress River.
Forster, Frank G.	Hanna, N. Dak.
McCaul, Robert	Brandon.
McNiven, Donald A.	Virden.
Sundercock, W. Clark	Carberry.

Third Year

Cottingham, W. R.	Boissevain.
Pulford, W. J. D.	Mather.
Gibson, Alex. R.	Winnipeg.
Hartie, Wm. Bowley	Bon Accord, B.C.
Kyle, David Cautelon	Brandon.
Macdonald, Murdo	Stornoway, Que.
Middleton, Marie Nesta	Brandon.
Morrison, John W.	Treherne.
Mulligan, Wm. O.	Winnipeg.
Percival, M. C. T.	Winnipeg.
Simonson, Elizabeth	Wetaskiwin, Alta.

Second Year

Anderson, J. T.	Melville, Sask.
Brandon, Isabel A.	Brandon.
Carrick, Cecil L.	Brandon.
Ferrier, Russell T.	Brandon.
McQueen, Robert	Brandon.
Menzies, Alastair F.	Virden.
Quance, Frank M.	Stettler, Alta.
Strang, John Argyle	Virden

First Year

Adamson, Morris	Dauphin.
Bell, Elizabeth	Macgregor.
Boyle, E. Russell	Togo, Sask.
Bulloch, Margaret A.	Reston.
Caldwell, Chas. Fleming	Dauphin.
Cameron, Una B.	Westbourne.
Clarke, Ernest H.	Borden, Sask.
Clayton, Phyllis	Portage la Prairie.
Coxworth, George Edgar	Dauphin.
Coxworth, Morley	Dauphin.
Dempsey, James Wesley	Kerfoot.
Doubleday, H. S.	Oswald.
Evans, Charles R.	Vancouver.
Everall, E. S.	Portage la Prairie.

Gill, Clifford	Pettapiece.
Keith, George R.	Grandview.
Kilfoyl, Roland H.	MacGregor.
Klassen, P. A.	Gretna.
Leech, Sara V. B.	Brandon.
Little, Grace E.	Brandon.
Mackinnon, Alex. G.	Portage la Prairie.
McKay, Archie A. S.	Portage la Prairie.
McKinnon, Fraser R.	Brandon.
McRae, Farquhar	Burnside.
Moore, Etta M.	Minnedosa.
Murphy, Thomas	Dauphin.
Peterson, W. T.	Brandon.
Potter, Samuel H.	Brandon.
Scott, Percy	Winnipeg.
Simpson, Evelyn J.	Brandon.
Sissons, Beatrice	Portage la Prairie.
Steeves, Muriel J.	Brandon.
Stefansson, Steinun J.	Winnipeg.
Thomas, Ethel I.	Portage la Prairie.
Thomson, Lily G.	Winnipeg.
Wallace, Wm. Blake	Portage la Prairie.
Watson, Thos. S.	Brookdale.
Wilkins, Wm. E.	Arcola, Sask.

ENGINEERING

Third Year

Smart, Leslie A.	Winnipeg.
Stout, Clifford	Springfield.
Taylor, William Caven	Winnipeg.

Second Year

Cavanagh, Albert Lee ..	Winnipeg.
Dynes, William Warren ..	Winnipeg.
Easton, Roy	Winnipeg.
Karlan, Sam	Winnipeg.
Landon, Charles Sydney ..	Winnipeg.
Lothian, Robert Ingles ..	Pipestone.

O'Reilly, John Arthur	Selkirk.
Rimington, Harry Stanley ..	Winnipeg.
Saltzman, Herman	Winnipeg.

First Year

Bell, James	Winnipeg.
Boynton, V. K.	Winnipeg.
Cruikshanks, Raymond	Winnipeg.
Davis, Wilfrid Ross	Winnipeg.
Easton, Leonard	Winnipeg.
Fingland, Wm. Chisholm	Winnipeg.
Forsyth, James	Winnipeg.
Hagarty, B.	Winnipeg.
Hagarty, D'Arcy	Winnipeg.
Hunt, William Harold	Winnipeg.
Kroll, Victor	Winnipeg.
Mitchell, Coulson Norman	Winnipeg.
O'Reilly, Richard Ham.	West Selkirk.
Rice, Garfield T.	Baddeck, Cape Breton, N.S.
Rogers, R. G.	Winnipeg.
Ruttan, John Douglas	Winnipeg.
Shanks, Gordon Lane	Winnipeg.
Taunton, Arthur John	Winnipeg.

MEDICINE

Fourth Year

Bastin, Charles Howden	Winnipeg.
Bell, Fred Charles	Winnipeg.
Bell, Percy George	Winnipeg.
Bergg, Edwin Ernest	Winnipeg.
Bloomer, James Egbert	Basswood.
Bolton, Earl Stewart	Darlingford.
Bridgman, Morley Counsellor	Winnipeg.
Bryans, Edward Ernest	Grayson, Sask.
Bugg, Edwin Ernest	Elkhorn.
Clark, Jeremiah Simpson	Bay View, P.E.I.

Coöper, William Alvin	Winnipeg.
Dixon, Wilbert Duncan	Purvis.
Everson, Clarence Currie	Manitou.
Grant, Edward	Bothwell, Ont.
Green, Charles William	Winnipeg.
Guest, Wilbur Evans	Winnipeg.
Hjaltason, Magnus	Winnipeg.
Houston, David Ralph	Emerson.
Ireland, George Robert Llovd	Winnipeg.
Irvine, Howard Thos.	West Hall.
Lambert, Auguste	St. Boniface.
Lewis, Henry William	Melita.
Maines, William Newton	Tweed, Ont.
Medd, Alfred Emmett	Oak Lake.
Montgomery, Hilton Ebra	Lockwood, Sask.
McGavin, Andrew Edward	Winnipeg.
McIntyre, Donald Faison	Winnipeg.
McQueen, John Douglas	Brandon.
McTavish, James Alexander	Plum Coulee.
Palsson, Johannes Pall	Wynyard, Sask.
Paul, Norman Joseph	Govan, Sask.
Peake, Wm. Henry Thorpe.....	Winnipeg.
Pirt, Wesley Wright	Morden.
Rice, Christopher	Brandon.
Robertson, Peter C.	Brandon.
Ross, Walter	Holland.
Scott, Robert George	Wakaw, Sask.
Shier, Lawrence Roy	Hamiota.
Smyth, Francis Burden	Winnipeg.
Swan, Alexander James	Winnipeg.
Washington, Everett Joseph	Ninga
Winkler, David Victor Stewart	Winnipeg.
Wright, Victor Wallace	Russell.

Third Year

Armstrong, George Percy	Carman.
Atkinson, Wilfred Lorne	Gladstone.
Breidenbach, Lambert	Winnipeg.
Bryant, F. Millwood	Russell.
Clare, Charles M.	Winnipeg.
Elliott, William James	Bluevale, Ont.
Fahrni, Gordon Samuel	Gladstone.
Fraser, John Brereton	Franklin.

George, James Polson	Morden.
Lee, John Howard	Winnipeg.
Little, Edwin Lionel	Pilot Mound.
Martin, John Roy	Newdale.
Miller, Thomas	Alder Grove, B.C.
Mooney, George Wm.	Lacombe, Alta.
McEachern, John Daniel	Newport, P.E.I.
McGregor, Bruce	Carberry.
McIntyre, Dougald	Winnipeg.
McKenty, Donald Edmund	Winnipeg.
Richardson, James Graeme	Manor, Sask.
Rose, Stuart M.	Minnedosa.
Stefansson, Jon	Mimer, Sask.
Straith, Peter Luther	Arcola, Sask.
Story, Herbert Edward A.	Lenore.

Second Year

Banting, Charles Orbrey	Wawanesa.
Bedford, George Victor	Winnipeg.
Bunn, Charles Randolph R.	Winnipeg.
Campbell, William E. G.	Winnipeg.
Coutts, James A.	Winnipeg.
Hassard, Oscar G.	Winnipeg.
Jackson, Frederick Wilbur	Stonewall.
Jamieson, Fred Lawrence	Winnipeg.
Johnston, James Arthur	Winnipeg.
Kerster, John Kennedy	Kenton.
Monro, Campbell Hamilton	Ethelbert.
Moran, John Elgin	Winnipeg.
Murison, James Alois	Winnipeg.
McConnell, Lorne Hansel	Hamiota.
McKinnon, Frank Lorne	Petrel.
Sadleir, John Frederick	Strathroy, Ont.
Snarman, William James	Russell.
Shaw, Edward Albert	Minto.
Sproule, Abner	Richard, Sask.
Stephanson, Stephan	Selkirk.
Strong, Condren Maurice	Medicine Hat, Alta.
Talbot, Albert Edward	Norman, Ont.
Thompsett, David A.	Goodlands.
Wallace, Douglas	Niverville.
Warner, Norman Wilfred	Winnipeg.

First Year

Alford, Andrew A.	Oak Lake.
Bates, Wm. J.	Winnipeg.
Bird, Frederick Valentine	Dunara.
Blondal, August	Winnipeg.
Brett, R. Earle	Winnipeg.
Cameron, Lyle J, ...	Shoal Lake.
Carr, William Mattison	Winnipeg.
Chestnut, William A.	Winnipeg.
Cole, William	Melita.
Creighton, Douglas St. Clair	Saskatoon, Sask.
Dyck, George	Carman.
Ferg, Edwin J.	Arden.
Floyd, Frank H.	Fort Francis, Ont.
Fryer, Irwin Offero	Winnipeg.
Groff, Harry Karl	Winnipeg.
Groulx, Donald L.	Reston.
Heddesheimer, Philip W.	Winnipeg.
Mathers, Alvin Trotter	Neepawa.
Murray, A. A.	Winnipeg.
McCullough, Edward E.	Portage la Prairie.
Neff, Wm. A.	Brandon.
Nuttall, Alfred	Winnipeg.
Phillips, John H.	Winnipeg.
Ross, Edith Mackay	Winnipeg.
Stewart, Aubon Earl	Winnipeg.
Stewart, Floyd Cecil	Neepawa.
Taylor, Benjamin	Headingly.
Williams, Gerald Shaw	Winnipeg.

CANDIDATES FOR LICENSE

Belanger, Joseph Arthur, M.D.	St. Pierre.
Crosby, Percy Clayton, M.D., C.M.	Melville, Sask.
Douglass, Marg. Ellen, M.D.	New York, U.S.A.
Gilbert, Frank Oliver, M.D.	Rolling River.
Lambert, Wm. Hamilton, M.D.	Arnprior, Ont.
Lynch, John George Brooks, M.D.	Almonte, Ont.
Martin, Ernest Albert, M.D.	Kemptville.
Saucier, Joseph T. Oscar, M.D.	Elie.
Shewan, Douglas Robt., M.D., C.M.	Montreal, Que.
Snyder, Readie Garfield, M.D.	St. George, Ont.
Young, David M., M.D.	Bristol, Que.

LAW

Third Year

Broatch, George Nelson	Redvers, Sask.
Clark, Herbert Wellington	Winnipeg.
Creelman, Samuel Muir	Virden.
Gunn, Benjamin McKenzie	Winnipeg.
Hamilton, Frank Kent	Winnipeg.
Knowles, Edwin Hubert	Tuxford, Sask.
MacInnes, Roy Bayne	Winnipeg.
Parker, Benj. Cronyn	Morden.
Swift, Herbert Edward	Winnipeg.

Second Year

Branion, Samuel John A.	Wolseley, Sask.
Bryant, John Leslie	Moose Jaw, Sask.
Hetherington, Evelyn Guy	Souris.
Hugill, John Williams	Calgary, Alta.
Kennedy, Frederic Chas.	Winnipeg.
Pridham, Edwin Allee	Winnipeg.
Procter, Arthur Thomas	Winnipeg.
Sirett, Ebenezer Tom	Minnedosa.
Whitman, Herman Alton	Winnipeg.

First Year

Brayfield, Hugh Cuthbert H.	Winnipeg.
Cumming, William P.	Regina, Sask.
Dixon, Charles H.	Winnipeg.
George, John Milton	Deloraine.
Hanbidge, John Murton	Regina, Sask.
Hayden, Frank Thomas	Brandon.
Hoskins, Ronald	Manitou.
Kilbourne, Robert Bruce	Ninga.
Masterman, Lawrence	Winnipeg.
Myers, Robert McLeod	Winnipeg.
Procter, Percy John	Winnipeg.
Tingley, George Russell	Austin.
Wallar, John Franklin	Winnipeg.

AGRICULTURE

August, William E.	Bates.
Crawford, Frederick W.	Chater.
Harrison, Thomas James	Carman.
Jones, E. Ward	Carman.
McMillan, Archie J.	Greenbank, Ont.
Noble, John C.	Brandon.
Partridge, Charles J.	Sintaluta, Sask.
Smith, J. Cochrane	Winnipeg.
Thompson, Harry W.	Sourisford.
Thomson, William W.	Virden.
Tinline, Milton	Elkhorn.

SPECIAL STUDENTS

Abegglen, Walter Edman	Bagot.
Amos, Frederick	Winnipeg.
Barber, John F. H.	Wesley, Ont.
Barker, Philip	Winnipeg.
Barton, Ernest Stephen	Chamberlain, Sask.
Bell, Alfred T.	Winnipeg.
Bray, Thomas	Winnipeg.
Gallaway, George Nicholas	Winnipeg.
Chambers, Edmund	Winnipeg.
Chapman, Frederick	Winnipeg.
Clark, A. G.	Winnipeg.
Clayton, Amos	Winnipeg.
Coles, J. L.	Winnipeg.
Cooke, Albert Edward	Willow Range.
Cousins, F.	Winnipeg.
Coveney, H. E.	Winnipeg.
Dodd, Harry	Winnipeg.
East, Samuel	Winnipeg.
Foxton, George ..	Winnipeg.
Hammond, Stephen Reginald	Winnipeg.
Hampton, William J.	Winnipeg.
Hanna, Alfred	Winnipeg.
Harris, G. G.	Winnipeg.

Heathfield, Harry	Winnipeg.
Henderson, Anthony J.	Winnipeg.
Henderson, John William Argue	Milberta, Ont.
Honor, George Thomas	Plumas.
Howey, J. V.	Winnipeg.
Jones, Joseph	Winnipeg.
Kirkpatrick, Ernest L.	Winnipeg.
Leclair, L.	Winnipeg.
Lobb, William J.	Winnipeg.
Lord, George Henry	Winnipeg.
Marshall, J. T.	Winnipeg.
Martin, J.	Winnipeg.
Maywood, W. T. D.	Winnipeg.
Merryweather, Thomas	Winnipeg.
Metcalf, Walter	Winnipeg.
Mitten, Thomas	Winnipeg.
Naylor, Isaac B.	Winnipeg.
Park, Robert E.	Winnipeg.
Parrot, Palmer Sylvanus	Winnipeg.
Pitts, Reginald Charles	Winnipeg.
Reynolds, J. W.	Winnipeg.
Stephens, John Thomas	Winnipeg.
Stook, Arthur Mardon Streeter	Winnipeg.
Streeter, Theodore Edmund	Winnipeg.
Sutton, Percy George	Winnipeg.
Whitaker, Bertie Loftus	Winnipeg.
Wildfong, Joseph Daniel	Atwell.
Wright, William	Winnipeg.
Wyman, William	Winnipeg.
Young, William Thomas	Winnipeg.

SUMMARY

Arts	371
Engineering	30
Medicine	129
Law	31
Agriculture	11
Special	53
Total	628

